



iLIFE ON TRIAL P.46
Do Apple's new media apps live up to the hype?

ZINE.

Faster. Easier. Safer.

- APPLE'S NEW STRATEGY Total compatibility. Total convenience.
- → AIRPORT EXTREME Hands-on testing. Surprising results.
- **BLUETOOTH** A whole new level of convenience.

hard drive p.95

AirPort Extreme

Bring new life to your games with mods, skins, maps, and more

HOW TO:

- Run Free Unix Apps in OS X.
- → Edit Non-DV. Clips in iMovie
- Move Old Files to a New Mac
- Give Clock a Face-Lift
- Create a **Custom Favicon**



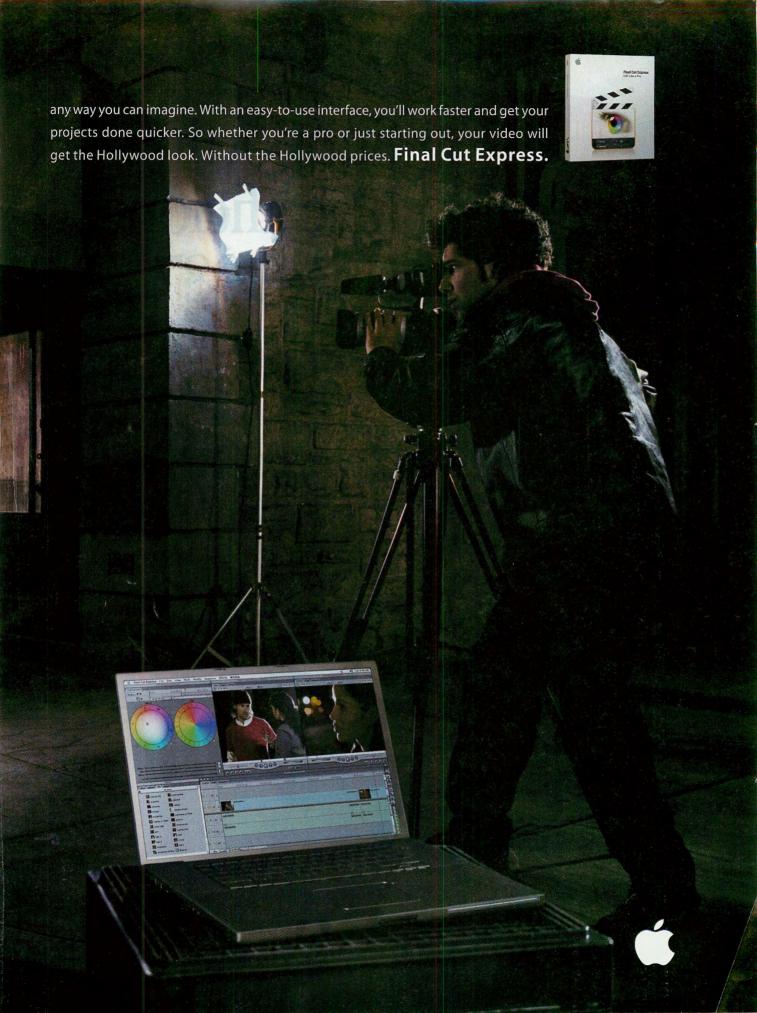
REVIEWED

SpaceShuttle A/V, Final Cut Express, AirPort Extreme, FontAgent Pro, Coolpix 3100, The Sims Unleashed, FontLab, extendAIR, Spamfire Pro, World War II Online, StudioMouse Wireless, VR Worx, and much more...









New!
Built for speed and connectivity!

Supporting the Mac aficionado since 1987

We knov

Mac Warel

rience

New! Apple iMac* G4 with 17-inch display a 1.0GHz G4 processor



Authorized Reseller



authorized reseller

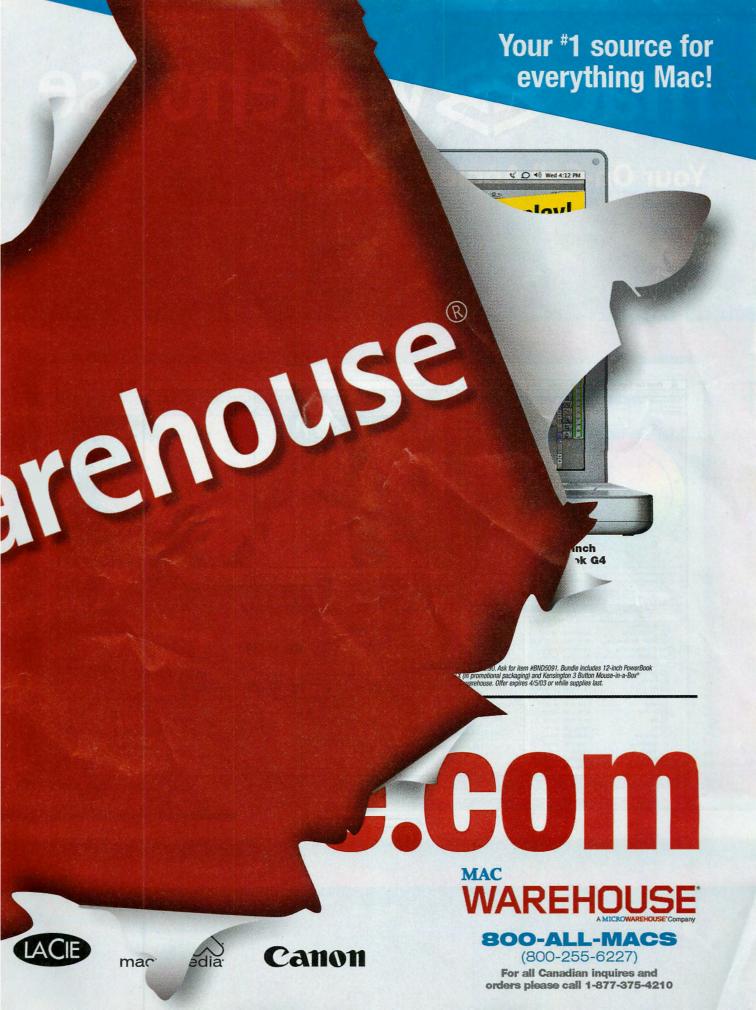
mac





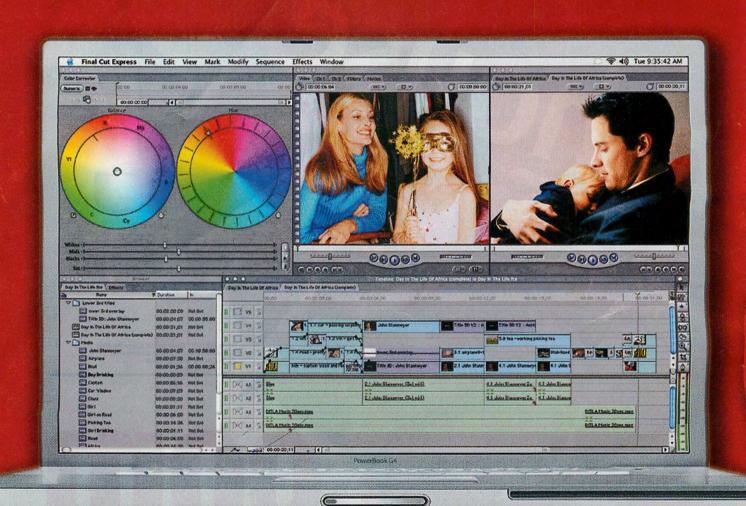
OUARK

EPSON°



mac > warehouse

Your On-Call Apple Specialists



- 100% Certified Apple Product Professionals —
 Every Mac Warehouse sales associate has successfully completed rigorous training from Apple so you always speak to an expert!
 And this team has been dedicated to helping Mac Warehouse clients get the right Apple and Apple-related products longer than any other company in the industry!
- Timely Delivery Mac Warehouse makes sure your order arrives when you need it
- The Latest Technology Mac Warehouse features the newest products

Plus Free lifetime tech support for every product we sell!

Final Cut Express



New! Apple
Final Cut
Express
Now you can
edit video
like a pro!

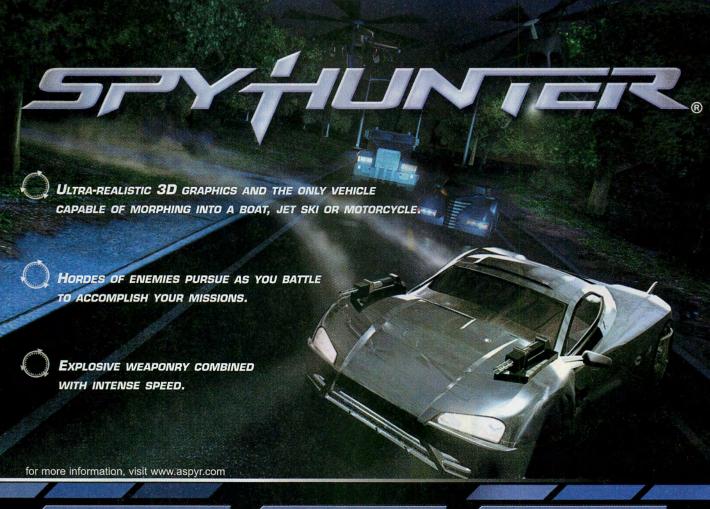


(800-255-6227)

macwarehouse.com

For Canadian inquires and orders please call 877-375-4210

YOU CAN'T KILL WHAT YOU CAN'T CATCH



















a better machine, a better magazine

ON THE COVER photograph by Mark Madeo illustration by Oliver Wolfson.

eatures

20 Extreme Wireless

Apple's pushing portability and mobility, and we can help. Here's what you need to know about AirPort Extreme, Bluetooth, and all the cool stuff that'll unchain your Mac. by Dave Hamilton

30 Wild at Heart



In this exclusive interview. acclaimed film director David Lynch talks digital video, the Mac. and why the Internet kicks TV's butt. by Narasu Rebbapragada

34 The Next Level



If you're looking to add spice to your games, look no further. We show you how mods, skins, maps, and more can give your games some extra oomph. by John Lee

62 Ask Us

Get your old bookmarks into Safari. Safely pry apart your iPod. Transfer Mail's spam savvy to another Mac. Pronounce Unix terms correctly. And more.

64 Run Unix Apps in Mac OS X

Need a reason to explore Unix? How about this: free apps. Here's how to get a load of great Unix apps, games, and utilities running on your Mac. by Mary E. Tyler

67 Make Non-DV Movies Compatible with iMovie

Who says you need a DV camcorder to use iMovie? Not us. We show you how to use iMovie to edit movie files from a digital camera or the Web. by Kris Fong

68 Give Clock a Face-Lift



We show you how to easily slap a new face on Clock that'll make

even Michael Jackson jealous. by Kris Fong

70 Adorn Your Site with a Custom Favicon

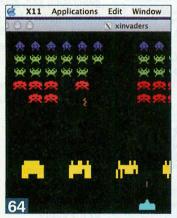


Now that you're surfin' Safari, you've seen SF Gate f those munchkin icons

flanking Web site URLs. Find out how to hang one on your own site. by Niko Coucouvanis

72 Move Old Files to a New Mac

Yay, you got a new Mac! Yay, you get to endure the tedium of moving all your old files to your new machine! Yay, you have us to help! by Carol S. Holzberg



Urban renewal, arcade-style.

month

12 Editors' Page

Wireless connectivity is a wonderful convenience—but some of us prefer the fast lane to easy street.

14 Get Info

Get the 411 on the massive new Xserve RAID and FireWire 800's blazing speed. Plus: a 4GB CompactFlash card, three



Two, four, six, eight, how many terabytes will it take?

new Mac games, and a 40-inch TV/LCD.

41 Reviews

45 AirPort Extreme wireless network in a box

- 48 Cinema 4D 8 XL 3D-modeling and -animation software
- 42 Coolpix 3100 3.2-megapixel digital camera
- 51 extendAIR AirPort Extreme antennae
- 44 Final Cut Express 1.0.1 video-editing software
- 58 FontAgent Pro 1.1.2 font-management and -repair software
- 53 FontLab 4.5.1 font editor
- 59 Freestyle Speedball notebook riser
- 46 iLife multimedia suite
- 57 Momo Racing Wheel USB steering wheel
- 57 NASCAR Racing 2002 Season racing game
- 56 Spamfire Pro 1.3.2 antispam utility
- 51 SpaceShuttle A/V AV controller
- 56 Spell Catcher X 10.0.1 spelling checker
- 52 Storm 2 software music studio
- 59 StudioMouse Wireless wireless mouse
- 42 Stylus 300 Digital 3.2-megapixel digital camera
- 58 The Sims Unleashed Sims expansion pack
- 59 UFO USB and FireWire hub for iMac G4
- 50 VR Worx 2.1 QuickTime-VR authoring software
- 54 World War II Online massively multiplayer online game









QUICK TIF

→ BE REALISTIC

Apple's new Final Cut Express shares most of its big brother Final Cut Pro's features, so unless you're a working video pro who needs HD video or massive effects and compositing, Express is probably all you need. From Reviews, p44

→ AVOID EMBARRASSMENT

Read this month's Unix University to learn the pronunciations of common Unix terms. For example, .cshrc-a C shell setup file-is pronounced like sea shark. From Ask Us, p62

> INSTALL UNIX APPS EASILY

Sure, you can surf the Web and find tons of Mac-compatible Unix apps, but the installation process (and your digestion) will run a lot smoother if you

use Fink. From "Run Unix Apps in Mac OS X," p64

→ SET DEFAULT APPS

If you want to set files to automatically open in a specific app (for example, have all QuickTime JPEGs open in

Photoshop), choose a file, select Get Info, select the app from the Open



With pop-up menu, and click Change All. From "Move Old Files to a New Mac," p72

→ SOUP UP YOUR SIMS

Before you put new objects and skins into The Sims' Floors, Skins, and Objects folders, download bangsplat's



SkinShrinker (free, www.bangsplat.cc), which shortens long file names so The Sims can recognize them.

From "The Next Level," p34

60 The Hot List

The best of the best from recent reviews. If the editors of MacAddict went shopping, this is what we'd buy.

94 Log Out 94 Letters

MacAddict bridges the generation gap, gives you the skinny on a low-cost layout app, and ruefully remembers the boxer-brief.



Who was that masked Village Person?

95 Contest

Fill out our quick Reader Survey and win a stylish LaCie Data Bank 20GB micro-drive.

96 Shut Down

How often do vou get the chance to win a genuine 50-pin SCSI cable autographed by the entire MacAddict staff?



I'm too SCSI for my shirt, too SCSI for my shirt, too SCSI...

The world's leading computer companies buy memory from us.



Shouldn't you?

When you buy a memory upgrade from Crucial you're buying directly from Micron—one of the world's largest DRAM manufacturers and a major supplier to the global computing industry. Buying directly from the manufacturer gives you access to the highest quality products at the lowest possible prices, backed up by expert technical support and world-class customer service, and topped off with guaranteed compatibility and a limited lifetime warranty. It's that simple.

Order today and we'll ship it free!*



Order online:

WWW.Crucial.com
or call toll-free 1-888-363-2562

256MB PC100 SDRAM

\$**55**⁹⁹

for today's most popular systems

FREE SHIPPING*



The Memory Experts™

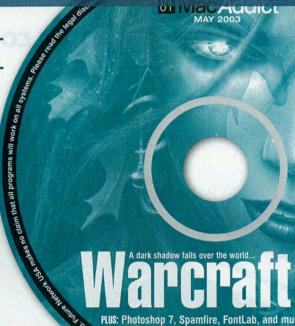
*See Web site for details.

Prices may vary according to specific system requirements. The price listed was valid on 2/28/03 when we sent this ad to the publisher; however, prices may have dramatically increased or decreased since then. Visit the FAQ section of Crucial.com to learn more about why memory prices go up and down.

© 2003 Micron Technology, Inc. All rights reserved. Micron Technology, Inc., is an authorized licensee of the CompactFlash™ and MultiMediaCard™ trademarks. Crucial, Crucial Technology, the Crucial Technology, Inc. in the U.S. and outside of the U.S. Radeon is a trademark of ATI Inc. and is used under license by Micron Technology. Inc. in the U.S. and outside of the U.S. Radeon is a trademark of ATI Inc. and is used under license by Micron Technology. Inc. DirectX is a registered trademark of Microsoft Corporation. OpenGL is a registered trademarks are the property of their respective owners. Crucial Technology is not responsible for omissions or errors in typography or photography.

Orcs, Elves, Photoshop, the Undead, and Spam

Whether you want to save the world in WarCraft III, save your email from spam, or save time by using Photoshop 7's Healing Brush, there's something here for you. Also featured this month: a killer software music studio, help with installing Unix apps, Niko versus an egg (check out the staff video), and much more.





Storm 2.0 demo

This beginner-friendly, modular music studio specializes in the Big Three S's of computer-generated audio: synthesizing, sampling, and sequencing.

FinkCommander

Want to run a bazillion

free Unix apps on your

a nifty GUI that makes

Mac? FinkCommander is

installing them a breeze.

onthe Disc

AUDIO & MUSIC MP3 Dock 1.0

Storm 2.0 demo

DEVELOPMENT 4D 6.8.3 demo

Fink 0.5.1 FinkCommander 0.5.0

FUN & GAMES

Sims Objects WarCraft III Bonus Maps WarCraft III demo Worms Blast demo

GRAPHICS & MULTIMEDIA

Adobe Photoshop 7.0 tryout Cinema 4D R8 demo FontLab 4.5.1 demo GraphicConverter 4.5.4 GraphicConverter (OS X) iDraw 1.3.2

INTERFACE

Path Finder 2.1

VR Worx 2.1 demo

INTERNET & COMMUNICATION

Spamfire (OS 9) 1.3.2 demo Spamfire (OS X) 1.3.2 demo Transmit X 2.3

PRODUCTIVITY Little Office 1.5

UTILITIES

Be_safe 1.4.2 **CRW-X 1.0** DiskTracker 2.2.2 DiskTracker (OS X) 2.2.2 Doublet Scan 4.0.5 Doublet Scan X 10.0.2 **Ericsson GPRS Scripts** FontAgent Pro 1.1.2 trial

SPONSORS

DriveSavers: DriveSavers Video Demo

FinkCommander File Edit View Source Binary 2.1.2-2 2.1.2-2 1.1-1 3.5-11 3.5-11 4.5.4-1 4.5.4-1 4.5.4-1 1.0.3-2 1.0.3-2 1.0.20-2 0.14-3 0.14-3 1.0.3-2 1.0.3-2 1.0.20-3 0.14-3 0.14-3 xgalaga Clone of the classic ga ... 4813 files and director Maintainer: Max Horn

WarCraft III: **Reign of Chaos**

demo We give you a playable demo of the hyperpopular WarCraft III game and toss in two bonus maps. Enjoy!

If you don't receive the Disc with your copy of MacAddict, you might want to consider upgrading! Each monthly disc contains cool demos, useful shareware and freeware, and the inimitable MacAddict Staff Video. To get 12 issues of MacAddict that include this value-packed disc with your subscription (prorated if necessary) for just \$1 more per issue, call 888-771-6222—the operator will take care of everything.

Mac Addict

PUBLISHER Chris Coelho, 415-656-8770 EDITOR IN CHIEF Rik Myslewski

MANAGING EDITOR Jenifer Morgan EXECUTIVE EDITOR Cathy Lu SENIOR EDITORS Narasu Rebbapragada (news), Kris Fong ASSOCIATE EDITOR Niko Coucouvanis (reviews) FPONYMEDITOR Max

CONTRIBUTING EDITORS Raf Anzovin, Steven Anzovin, Joseph O. Holmes, Frank O'Connor, Angus Pàldean, Ian Sammis, Deborah Shadovitz, Andrew Tokuda, Buz Zoller

ART DIRECTOR Christopher Sterling Imlay ASSOCIATE ART DIRECTOR Leslie Brown Osborn PHOTOGRAPHER Mark Madeo PHOTOGRAPHY INTERN Katherine Quan

PRODUCTION

PRODUCTION DIRECTOR Richard Lesovoy PRODUCTION COORDINATOR Hans Hunt

ADVERTISING

EASTERN ADVERTISING DIRECTOR Bernie Lanigan, 212-768-2966 x4001 WESTERN ADVERTISING DIRECTOR Dave Lynn, 949-360-4443 NATIONAL ACCOUNT MANAGER Nate Hunt, 415-656-8536 NATIONAL SALES MANAGER Stacey Levy, 925-964-1205 SENIOR ACCOUNTS MANAGER, DIRECT SALES Ana Epstein, 415-656-8416 AD COORDINATOR Jose Urrutia, 415-656-8313 MARKETING MANAGER Alison McCreery

CIRCULATION

GROUP CIRCULATION DIRECTOR Tina Rodich NEWSSTAND MARKETING MANAGER Mimi Hall BILLING AND RENEWAL MANAGER Robyn Patty FULFILLMENT MANAGER Angela Martinez DIRECT MARKETING SPECIALIST Mary Nicklin



Future Network USA 150 North Hill Drive, Brisbane, CA 94005

CHIEF EXECUTIVE/FUTURE NETWORK Greg Ingham PRESIDENT Jonathan Simpson-Bint VP/EDITORIAL DIRECTOR Matt Firme VP/CFO Tom Valentino VP/CIRCULATION Holly Klingel GENERAL COUNSEL Charles Schug PUBLISHING DIRECTOR Simon Whitcombe DIRECTOR OF CENTRAL SERVICES Nancy Durlester

Future was founded in the UK in 1985. Today it publishes over 80 specialist consumer magazines worldwide. It is the leading publisher of video games and home-computing magazines in the UK and Italy. The company also licenses 37 of its titles, resulting in over 60 local editions in a further 22 countries. Future employs more than 1,000 people in offices in Bath. London, San Francisco, New York, Paris, and Milan. The Company is listed on the London Stock Exchange (symbol FNET).

Tel +44 1225 442244 • www.thefuturenetwork.plc.uk Media With Passion Bath, London, Milan, New York, Paris, San Francisco

REPRINTS: For reprints, contact Reprint Management Services, Maggie French, 717-399-1900 x178 or mfrench@reprintbuyer.com.

SUBSCRIPTION QUERIES: Please email mcdcustserv@cdsfulfillment.com or call customer service toll-free at 888-771-6222.

Volume 8, Issue 5
MacAddict (ISSN 1088-548X) is published monthly by Future Network USA, 150 North Hill Dr., Brisbane, CA 94005, USA. Periodical-class postage paid at Brisbane, CA, and at additional mailing offices. Newsstand distribution is handled by Curtis mailing offices. Newsstand distribution is handled by Curtis Circulation Co. Basic subscription rates: one year (12 issues + 12 CD-ROMs) U.S. \$39.90, Canada \$43.95, U.S. prepaid funds only. Canadian price includes postage and GST 128220688. IPM 0962392. Outside the U.S. and Canada, price is \$53.95, U.S. prepaid funds only. POSTMASTER: Send address changes to MacAddict, P.O. Box 5126, Harlan, Ia 51593-0626. Future Network USA also publishes Maximum PC, PC Garner, Official Xbox Magazine, and PSM. Entire contents copyright 2002, Future Network USA. All rights reserved. Reproduction in whole or in part is prohibited. Future Network USA is not affiliated with the companies or products covered in MacAddict. Ride-Along enclosure in the following edition(5): B. Bl. S. B. B. S. Sta Als Standard enclosure in the following edition(s): B, B1, B2, B3, B4, Standard enclosure in the following edition(s): A4. PRODUCED IN THE UNITED STATES OF AMERICA.

"...Juno's software worked like a champ..."

"... I was up and running in a jiffy..."

"...connections were fast and reliable..."

"...you can pay less than half the price of AOL® or MSN®..."

Gene Steinberg,
 Award-winning Technology
 Journalist & Mac Aficionado

Finally...something Mac and PC users can agree on.

An affordable way to get Internet access.

Reliable Connections
Half the Price of AOL®

Free E-mail
No Banner Ads



1-877-TRY-IUNO • IUNO COM

The Wireless Revolution

Sign me up—but not quite yet.



I don't need any convincing.

Take a look at my home setup. My TiBook sits enthroned on a Griffin iCurve, surrounded by—count 'em—19 different cables snaking to and from various devices and hubs. Take a look at your own setup, and I'm sure you can relate. It's obvious: Cables are a royal pain.

So it's been with great interest that I've followed Apple's efforts to liberate us from the tyranny of twisted pair, the captivity of cables. My only complaint is that going wireless still involves a trade-off: speed for convenience.

In this month's issue, David Hamilton (of *Mac Observer* fame) digs deep into the wonderful world of wireless. He sizes up the latest and greatest in wireless networking—known as AirPort Extreme to us Mac folks and 802.11g to the not-yet-converted—and takes a gander at the rapidly emerging convenience of Bluetooth.

It's a great article about a great set of technologies. But not every new technology is for everybody—if that were true, we'd all have TiVos and digital cable. But I don't. I don't like television, and I do like network connectivity at higher speeds than AirPort can provide—so my home network is wired for Gigabit Ethernet. Yeah, that's wire, as in twisted-pair CAT-5e. Expensive and a pain to install? Yeah. But hey, an übergeek's gotta do what an übergeek's gotta do.

Don't get me wrong—I'm all for the rapid acceptance of AirPort Extreme in every nook and cranny of the known world. It's a great technology, and yet another example of Apple having the guts to stick its neck out while timid peecee makers lag behind. Just don't ask me to abandon my cables until AirPort Extreme evolves into AirPort Ludicrously Excessive.



fromtheeditor's desktop

WHERE TO LEARN MORE ABOUT WIRELESS TECHNOLOGY

One of the coolest things about emerging technologies is that they're, well, *emerging*. Things move fast. Here are a couple of sites that can help you stay up-to-date on the wireless revolution.

802.11 Planet

www.80211-planet.com The technology and business of 802.11, including a discussion forum.

Wi-Fi Networking News

http://80211b.weblogger.com Up-to-the-minute Wi-Fi news, ruminations, rumors, and discussions.

Apple AirPort Weblog

http://wireless-starter-kit.com /airportblog Links to Web articles and discussions about AirPort.

The Official Bluetooth Web Site

www.bluetooth.com Just what you'd expect: marketing, news and events, SIG info, and white papers.

The Bluetooth Weblog

http://bluetooth.weblogs.com Links to Web articles and discussions about Bluetooth.

The Wireless Transmission of Electrical Energy

www.tfcbooks.com/articles/tws8c.htm There's no getting around it: Nikola Tesla was one wacky dude.

STAFF RANTS

Q1: What's more important to you, convenience or speed?

Q2: Wireless connectivity, washboard abs, or fried foods?



Narasu Rebbapragada 24-HOUR SITNESS EDITOR What's more important to you, convenience or speed? Convenience. Big Gulps, lattes, and Internet connections should always be within walking distance.
Wireless connectivity, washboard abs, or fried foods?

Wireless. Abs are unnecessary (I just lean my gut up

against my desk) and fried foods make my fingers slip off the keyboard.



Niko Coucouvanis MR. CONCEPTION

What's more important to you, convenience or speed? Living in lawless Oaktown, I could get speed right down the street—which would be supremely convenient. But I'm not like that.

Wireless connectivity, washboard abs, or fried foods?
Wireless food fryers, actually. Dammit, Rik, stay out of my top-secretinventions notebook!



Kris Fong BRAIN DEAD

What's more important to you, convenience or speed? Convenience, though I have friends who live for speed—and then promptly crash and burn when the effect wears off.

Wireless connectivity, washboard abs, or fried foods?

Mobility and eye candy are nice, but I'd take a basket of fried oysters and chips over the other two any day—unless the abs are connected to an intelligent, good-looking guy.



Cathy Lu KICKBOXER WITH A BAD UPPERCUT
What's more important to you, convenience or speed?
Convenience. I'd much rather have a convenience
store next door than a fast car to get me to a store
that's 10 miles away. Even better would be to have the
convenience store deliver a daily bag of snacks.

Wireless connectivity, washboard abs, or fried foods? Washboard abs. Because then I could sit on my couch surfing the Internet wirelessly while eating all the fried food I want.



Jenifer Morgan EDITH PILAF

What's more important to you, convenience or speed? Convenience, because as our friend Mr. Auden put it, "In headaches and in worry, vaguely life leaks away, but time will have its fancy tomorrow or today."

Wireless connectivity, washboard abs, or fried foods?
Well, now that French fries are being called Freedom fries in some parts of the U.S.A., I'll have to go with wireless connectivity.



Chris Imlay CABLE SNAKER

What's more important to you, convenience or speed? Depends. Speed for big-file things like my iPod, but my phone must be wireless.

Wireless connectivity, washboard abs, or fried foods?
I'd like to wirelessly connect fried foods while my abs





Leslie Osborn DOCTOR DETROIT

What's more important to you, convenience or speed? Speed? Whosaidanythingaboutspeedlonlyusecaffeine I'mjustreallysensitiveandithelpsmeworkfasterondeadline youknow!

Wireless connectivity, washboard abs, or fried foods?
My grandma's Southern-fried cornbread. Mmm...where's the number for
FedEx again?



Max VISIONARY FUTURIST

What's more important to you, convenience or speed? Both. As Veruca Salt sang to the noble Wonkster, "I want the world, I want the whole world...Don't care how, I want the could."

Wireless connectivity, washboard abs, or fried foods?

Wireless connectivity, of course. But I want it to include USB, FireWire, alternating current, and—why not?—UltraSCSI.

It's a lot easier to take on an army



when you are one.

OUNGEON FEGE

A ROLE-PLAYING GAME FROM CHRIS TAYLOR

Assemble and control a party of up to eight heroes at a time, as you battle your way through the seamless and expansive 3D world of Ehb. From warriors and archers to wizards, and even pack mules to carry your treasure, you and your party will wreak vengeance on an ancient evil. Whether you're playing alone or in multiplayer mode, victory is within your grasp. Let the battles begin.

www.macsoftgames.com



BLOOD AND GORE VIOLENCE



Microsoft game studios

Copyright 2002 Microsoft Corporation. All rights reserved. Microsoft is a registered trademark of Microsoft Corporation in the United States and/or other countries. Dungeon Siege is Copyright 2002 Gas Powered Games Corp. All rights reserved. Gas Powered Games and Dungeon Siege are the exclusive trademarks of Gas Powered Games Corp. Trademarks used under license by Destineer Inc. Destineer is a trademark and MacSoft is a registered trademark of Destineer, Inc. MacSoft

INSIDE FIREWIRE

Why It's So Freakin' Fast

crew USB 2.0 with its paltry 480 megabits per second (Mbps). Apple's new FireWire 800 technology whizzes data through cables at a blinding 800 Mbps, nearly twice as fast as USB 2.0 or the original FireWire. Here's how it works, where to get it, and what its future is.

FASTER AND LONGER

FireWire 800 gains its extra 400 Mbps primarily for two reasons. First, it uses a faster data-encoding scheme (based on the same efficient code used in Gigabit Ethernet) that quickly speeds data across meters of copper or glass cable. Second, it uses a faster arbitration process. Arbitration determines which of the devices sharing a FireWire connection (computer, camcorder, hard drive, and so forth) get to send data when. With FireWire 400, arbitration occurs after a packet of data is sent or received, resulting in a slight delay before transmission of the next wave of data. However, with FireWire 800, arbitration takes place during transmission, so the next wave of data is ready to go right after the previous one is received. And while the original FireWire (FireWire 400) uses a six-pin connector,

extra pins, which shield the other pins from the speed-hampering electrical interference that can occur during transmission.

FireWire 800 can also travel up to 100 meters without a repeater, which lets you combine cables to extend range. This distance is about 22 times further than FireWire 400's 4.5-meter limit. What's the catch? To get your data to travel that far, you must use glass optical-fiber cabling. and it's far more expensive than the copper wiring in traditional FireWire cables, which can reach similar speeds but at FireWire 400's distance limitations.

Speaking of cable costs, one manufacturer of FireWire 800 drives says that since the companies spitting out the updated copper FireWire 800 cable are few and far between, they're charging a higher price for it than for regular FireWire 400 cable. Add to that the cost of brand-new chip sets, and you can expect FireWire 800 drives to be priced about \$75 more than their FireWire 400 counterparts.

WHERE IS IT?

It was the wait for two chips that, in part, delayed the production of new FireWire 800 drives: Oxford Semiconductor's Oxford 922 chip set, which links the hard

The Race to Release FireWire 800 Drives

THE INDY

No word yet on what they'll cost you.

WIEBETECH **DESKTOP GB+800**

Available: Q2 2003 Comes in 80GB, 120GB, 180GB, 200GB, and 250GB sizes



ELITE PRO 800

Available: March 2003 Comes in 80GB, 120GB, 180GB, 200GB, and 250GB sizes.



The new shape of FireWire 800 nearly doubles data transfer speeds.

800

disks themselves to the FireWire bridge, and Texas Instruments' Phy (physical) chip, which links the Oxford component to the actual FireWire port. Drive manufacturers like WiebeTech (www.wiebetech.com) needed the parts to deliver the goods. "Without those two parts you can't brew up any 800-megabit stuff at all," says James Wiebe, president of WiebeTech. (Both components should be shipping by the time you read this, so expect to see the drives soon.) See "The Indy 800," below, for what FireWire 800 drives are in the works.

THE 400 CLUB

Despite the buzz, the reality is that most Mac users out there will remain tethered to the FireWire 400 ports on their existing Macs. Given the FireWire 800 port's different shape, it doesn't take a genius to see that the square peg won't fit in the (sort of) round hole. Don't worry. Your old six-pin FireWire devices

will work perfectly fine—albeit at slower FireWire 400 speeds—in the new nine-pin ports with a legacy adapter such as Belkin's 18-inch, nine-to-six-pin FireWire 800 cable (\$29.95, www.belkin.com).

WHAT'S NEXT?

FireWire 800 is just part two of Apple's multipart FireWire standard, which, according to the IEEE 1394b road map, will reach 3.2 aiaabits per second. According to Lewis. future iterations of Oxford's 922 FireWire chip set will use OS X's built-in support for multichannel audio to output 7.1 surround sound (that's eight-channel audio, folks). If Apple ever decides to support Dolby Digital decoders (hint, hint), the result will be one mean set of FireWire home-theater speakers. Until then, write and read data faster on your FireWire 800 drives, and as you blaze on by, stop to catch the embarrassed looks on your USB 2.0 friends' faces. -Neil Sroka

MAXTOR FIREWIRE 800 DRIVE

www.maxtor.com **Available:** TBD No word yet on sizing.

SMARTDISK FIREPOWER

www.smartdis .com Available: March 2003 Comes in one 200GB size.

LACIE D2 FIREWIRE 800 DRIVE

www.lacie.com
Available: March 2003
Comes in 200GB to
500GB sizes



APPLE'S BIGGEST STORAGE BOX EVER

Inside the Xserve RAID

A pple's new Xserve RAID (\$5,999 to \$10,999, www.apple.com) boasts a maximum 2.5 terabytes of disk space and is the single biggest storage product the company has ever sold.

FAST DATA TRANSFER

RAID stands for either redundant array of independent disks or redundant array of inexpensive drives, depending on whom you ask. Either way, RAID consists of two or more disk drives connected in a way that gives you fast, reliable storage. Its 3U design (it uses three rungs of a standard server rack) currently comes with 4, 7, or 14 180GB IBM 7,200-rpm ATA/100 drives (depending on the configuration you choose). At full capacity, each Xserve RAID holds 2.52 terabytes of data, which it can transport using two 200-MBps Fibre Channel ports. (Apple sells the Fibre Channel PCI cards for the two ports at \$499 each.)The Xserve supports RAID types 1, 3, 5, 0+1, 10, 30, and 50.

SAFE DATA TRANSFER

At the back of the unit are two hardware RAID controllers, each of which can manage up to seven drives. Hardware RAID controllers are preferable to software RAID controllers because they don't tax the server's CPU. According to Apple, neither does the Fibre Channel PCI card, which is loaded with DMA (direct memory access). When

combined with Apple's new IP-over-FireWire technology, the two FireWire 800 ports on the back support TCP/IP connectivity for clustering and daisy-chaining units. One FireWire 400 port on the front plugs in devices for diagnostic tests. Two Ethernet ports let you plug a RAID directly into an Ethernet network for remote management. All this, combined with two hot-swappable cooling modules, two hot-swappable power supplies, and the drives' independent data channels, means maximum data redundancy.

All this sounds great, but the true test of success is whether enterprises will choose the Xserve RAID over more-traditional brands of RAID storage. —Narasu Rebbapragada



Rack 'em up. This rack with 4 Xserve RAIDs and 12 Xserves can potentially hold more than 18 terabytes of data.

HOTOGRAPH COURTESY OF APPLE



Do your cocktail gloves scan fingerprints from wineglasses? They can in Alias Underground.

UNDERGROUND

Hit TV Show Inspires Free Web game

ans of the spy show Alias should download Alias Underground, a free episodic Web game spawned by the hit ABC show.

In most missions, you play Sydney Bristow, a double agent helping the CIA bring down evil organization SD-6.

Alias fans know that Bristow is the diminutive, attractive gradschool student and spy who can kick anyone's butt.

Alias Underground **Buena Vista Interactive Group** http://abc.abcnews.go.com /primetime/alias/underground Available: Now

Missions are loosely tied to the show's story line. The first

mission, reminiscent of one of Alias's embassy episodes, has you infiltrating a Turkish embassy using tech guy Marshall's crazy gadgets. Even Sydney's dress rings true to the TV show. Don't overlook the training session, where you learn to shoot, kick, and-like any good chick-spy-crawl under lasers.

Alias producer, writer, and director J. Abrams is guiding the game's development. Abrams is a huge Mac fan and created the show's theme song on his Mac.

New missions come out approximately every five weeks, with the last one set for a May 26 release.

-Cathy Lu



Sydney spots a quard lurking around the corner in Alias Underground.



Head-to-head or tail-to-tail? Whatever it is. it's multiplayer competition in Worms Blast.



THE NEW WORMS ON THE BLOCK

Worms Blast Single-Player and Multiplayer Arcade Shooter

artoonlike humor, fast arcade action, and unnerving twists in gameplay make Worms Blast a fun alternative to the wormsversus-worms combat in the rest of the Worms franchise (Worms

Worms Blast MacPlay www.macplay.com Available: February 2003

and Worms Armegeddon). Shoot to eliminate colored blocks with the appropriately colored bazooka (or other special weapons), while watching out for falling land and other mishaps. The game offers multiplayer and single-player

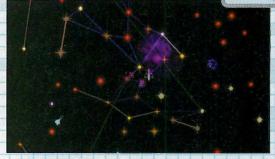
action, quirky characters (worms, a pigeon, a skunk, and a human), and ten gaming modes including Tournament, Deathmatch, and Star Catching.-Bryan Chaffin

MASTERS OF ORION III: COMIN' AT YA

Turn-Based Strategy Game of Galactic Conquest acSoft is putting the finishing touches on Masters of Orion III. Announced back in the summer of 2001, Masters of Orion III takes the superpopular galactic-empire-building series

to new heights of complexity with 16 races, new levels of control, new interaction, more stories, and galactic (rather than mere planetary) conquest.-BC

Masters of Orion III MacSoft www.macsoftgames.com \$49.95 Available: Spring 2003



Get to a galaxy far, far away in Masters of Orion III.

BACK TO THE FUTURE

Peter Tamte Founded MacSoft, Left It, Then Bought It Back

Bought It Back

eter Tamte has a long history in Mac gaming that includes founding MacSoft in 1993, heading up Bungie Software's publishing arm until Microsoft bought the company in 2000, and launching Destineer Studios (www.destineerstudios.com), which recently announced the buyout of



Peter Tamte founded Destineer and the original MacSoft.

MacSoft (www.macsoftgames.com). We talked to Tamte to find out what his plans were.—*BC*

MA: How will the MacSoft acquisition benefit Mac gaming?

PT: We have a stronger lineup of games planned for MacSoft during 2003 than has ever been released by any company in the history of the Mac games industry. We already have 17 releases identified for 2003. Ten of these are new



big-name blockbuster games, a few will be games we've remade for Mac OS X.

MA: Is there anything specific in the pipeline?

PT: Our first release will be Master of Orion III, the sequel to the most popular space-strategy sim ever created. Then we'll release Dungeon Siege, followed by Unreal Tournament 2003 and Neverwinter Nights, an outstanding D&D role-playing game created by legendary developer Bioware. And, of course, later in the year we'll release the Mac version of Halo.

MA: How do you feel about acquiring a company you helped create?

PT: Anxious. We have this incredible list of really great games to release. I'm anxious for us to make sure we make the Mac versions everything they can be. It's also important to say that MacSoft won't be the only one releasing great games this year. Aspyr, MacPlay, and others also have outstanding lineups planned for 2003. I think Mac game players will be really happy with what happens throughout this year.

FREEHAND MX

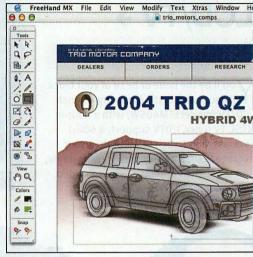
Macromedia Upgrades its Drawing App

M acromedia's FreeHand 10 (\$399, \$99 to \$149 upgrade, www.macromedia.com) has graduated to the MX status enjoyed by the rest of the major Macromedia apps with a revamped interface and toolset. Multiple Attributes lets you apply an unlimited number of fills, strokes, and effects to a

Attributes lets you apply an unlimited number of fills, strokes, and effects to a single vector or text object. Live Effects lets you apply vector and raster effects

to an entire object or its selected attributes. The Live Edit feature lets you change the appearance of graphics without changing that object's state, so you can round off rectangle corners while retaining the object's rectangle quality. Updated tools include the Connector Lines tool for site mapping and the Extrude tool for creating 3D graphics.

As you might expect, Macromedia has upped the integration with Flash (SWF) files and Fireworks (PNG) graphics. FreeHand MX runs in OS 9 and OS X.—CL



FreeHand joins the Macromedia MX clan with consolidated panels, Live Effects, and better Flash and Fireworks integration.

SHAREWARE PICK OF THE MONTH

PATH FINDER 2.1

CocoaTech • www.cocoatech.com • \$35

I fyou think that the OS X Finder's Icon, List, and Column views are sufficient, you haven't tried Path Finder. This application gives you a souped-up version of the OS's Finder views that's easier to look at, uses less space, and provides snazzy features such as document previews in any view, resizable icons, viewing

ON THE DISC Path Finder 2.1

of invisible files, and Trash on the desktop. Plus you can perform tons of commands right from the menu bar. For power navigation and file management, we'd take Path Finder over the OS X Finder any day.—Andrew Tokuda

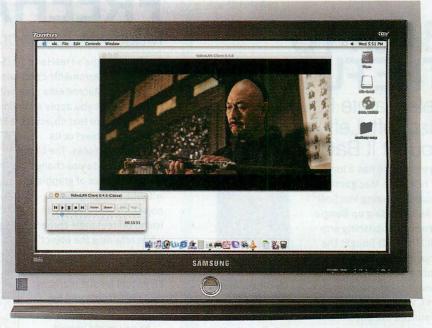


Path Finder is OS X Finder on steroids, ephedrine, Ritalin, and other nefarious performanceboosters. Sexy Stuff We Can't Wait to Get Our Mitts On

40-Inch LCD/TV →

Samsung • www.samsungusa.com \$7,999 street

You'll be the belle or beau of your block if you invest in the Samsung 40-inch LCD/TV (model LTM405W) with a built-in NTSC TV tuner, HDTV support, a 600:1 contrast ratio (much brighter than your average LCD), a 170-degree viewing angle, and connection options such as S-Video, component, and DVI.—NR



Get one of these and your neighborhood will christen you Saint Super Bowl.

Throw a little Mozart into this 3-inch-long number and your friends will have planist envy.

Tiny Tune Player →

Digitalway • www.mpio.com • \$149.99 (128MB), \$199.99 (256MB)

The MPIO FL100 MP3 player is about the size of your middle finger and comes with five-band EQ, a backlit LCD, an FM radio, and a voice recorder. You can expand its 128MB or 256MB of internal memory with an MMC or SD card, and the FL100 syncs via USB to iTunes 3 (for Mac OS 10.1 or later).—NR



EQUAL-ACCESS MACS

How To Comply With Stricter-Than-Ever Disability Laws

hose who face physical challenges often need a few extra tools to navigate their Mac. Apple has long recognized this fact and has incorporated what it calls Universal Access tools in the Mac OS since System 7.x. In 2001, Congress mandated more stringent rules, outlined in Section 508 of the 1998 Rehabilitation Act. Here's how you can make the Mac a more accessible place.—NR



ACCESS-ORIZE YOUR SITE

lason Taylor and Richard St. Arromand of UseableNet (www.useablenet.com), which makes the accessibility software line Lift, gave us some tips for "access"-orizing your Web site.

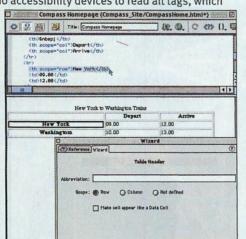
Make Tables Speak Imagine a person with a visual impairment trying to read a train schedule online. Define row or column headers as (table header) cells, not as (table data) cells. This way, speech browsers can read the appropriate title cell before a data cell.

Simplify Navigation for Speech Browsers When people read a Web page, they tend to ignore repeated navigation elements. Help speech browsers skip this redundant data by using "skip to unique content" alt tags.

Provide Text Alternatives to Images People with eyesight problems often rely on speech browsers like Synapse Adaptive's Jaws (www .synapseadaptive.com), GW Micro's Windows-Eyes (www.gwmicro .com), and other audio accessibility devices to read alt tags, which

are mark-up tags for downloaded graphics. Provide a text alternative to describe the purpose of all images using either the alt tag or the longdesc tag, which is an HTML tag used for long descriptions of media.

> Defining row and column headers makes data tables talk.



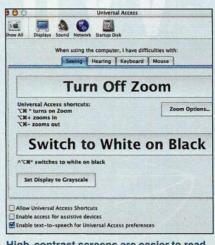
ACCESS-ORIZE YOUR MAC

Apple has added even more accessibility shortcuts to Jaguar's Universal Access system preference.

Turn On Zooming for Users with Visual Difficulties In the Seeing panel, click the Turn On Zoom button. Now use the

shortcut Option-Command-plus (+) to zoom in on an area of the screen and Option Command-minus (-) to zoom out.

White on Black **Makes for Easier** Reading Click Switch To White On Black in the Seeing panel for a higher-contrast screen that's easier to read.



High-contrast screens are easier to read.

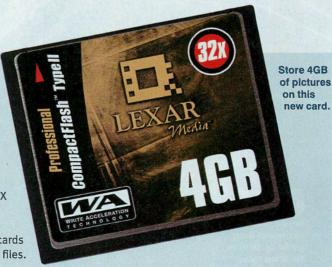
Flashing Alerts Help Users with Hearing Difficulties In the Hearing panel, you can set your screen to flash during an alert sound.

Sticky Keys for Sticky Fingers If you have trouble pressing simultaneous keyboard combinations, Sticky Keys (in the Keyboard panel) lets you press keys sequentially.

4GB OF COMPACTFLASH

Lexar Releases Biggest Media Card to Date

When Lexar Media releases its new 4GB Professional Series CompactFlash card (www.lexarmedia.com, \$1,500) in the second quarter of 2003, it will be the largest image-storage card that digital photographers have ever seen (short of a hard drive). For those shooting in high-resolution TIFF and RAW file formats, the 4GB size is a blessing. This 32X Type II CompactFlash card transfers data at 4.8 Mbps, as do Lexar's 1GB and 2GB cards. (Lexar's 256MB and 512MB cards have been revamped with 40X data-transfer speeds.) The 4GB card and all other Lexar Professional Series cards come with Image Rescue software for recovering damaged and newly erased files.



EXTREME WARES



Ross Barkman's Ericsson GPRS Scripts and PDF file "Set Up the T68i for Web Surfing"

20 MacAddict May 2003

by Dave Hamilton

illustration by Oliver Wolfson photograph by Mark Madeo



hellish life filled with servers, Zip disks, 28.8-Kbps dial-up, and

USB cradles.



A irPort, or 802.11b, as the wire-rimmed-glasses crowd calls it, was the first widespread wireless-networking option for Mac users. When Apple introduced it in 1999, it was an immediate hit, as people realized they could surf CNN.com—and MacAddict.com, of course—from the comfort of their featherbeds.

AirPort is a fully cross-platform standard, which means Mac users can easily hop onto wireless networks in homes, offices, hotels, coffee shops, and...well, airports. The problem with

GET THE MOST OUT OF AIRPORT

If you want to get the best performance with the least amount of interference, heed the following hints. They apply to both AirPort and AirPort Extreme.

- ◆ Update to the latest firmware. This is especially true for AirPort Extreme, which isn't a ratified standard yet. A little update can mean big changes, and it's worth staying on top of things. In fact, make sure you have the latest firmware even if you just bought your Base Station. Check Apple's AirPort support page to keep up on the latest firmware developments (www.info.apple.com/usen/airport).
- Set the Base Station to 802.11g-only mode. If you always want the higher speeds of AirPort Extreme, this will keep older machines from slowing you down. But doing so will also lock out 802.11b users, so make sure you're willing to sacrifice those slowpokes before you switch to this mode.
- Keep microwave ovens, cordless phones, Bluetooth devices, and other wireless networks from operating in the same area as your network. These devices can deliver interference by the bucketload, and if you're looking to max out your speed, you need to rid the airwaves of any noise.
- Make sure no large metal objects lie between your Mac and the Base Station. Look out for metal filing cabinets, refrigerators, metal plates in your head, and air-conditioning ducts. Yep, central air can be a nuisance to anyone with a wireless network. You are willing to sweat for your wireless, aren't you?
- If you're getting interference from a cordless phone or other wireless device, try changing the AirPort channel to the other end of the spectrum and see if that helps. While it's true that you can set AirPort and AirPort Extreme to any of 11 different channels, those channels are not distinct from one another. Rather, the channel you set is merely a focal point. It defines the middle of the signal, which then spreads out into the surrounding channels.

802.11b is performance—while its theoretical 11-Mbps speed is plenty fast enough for completing that Buy.com transaction or checking email at the local cafe, it's simply not good enough for the really cool stuff like streaming video or transferring large graphics files.

Enter AirPort Extreme, or 802.11g, as the ponytailed developer crowd calls it. It's faster, it's more powerful, and it's Apple's new baby. But don't get out the bon voyage confetti yet—it will take years for companies and schools to move from regular ol' AirPort to the next standard. Most likely, you'll be living in a mixed 802.11g and 802.11b society for some time to come. That's OK, though—the two work seamlessly together.

What Is 802.11g?

The 802.11g protocol is quite new to the market—it isn't even officially a ratified standard yet. The IEEE (the group of folks who approve such things) doesn't expect to ratify it until summer of this year, which means we're back to a situation much like that of the first 56-Kbps modems—they work with others of their ilk, but you may run into compatibility problems if you try to connect to different brands (more specifically, products with different chip sets). Thankfully, most vendors, Apple included, expect their chip sets to be software upgradable to comply fully with the new standard when it's set in stone.

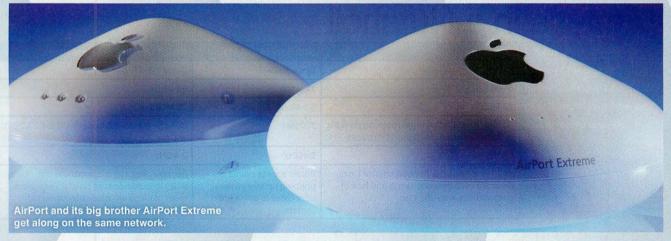
Extreme is actually a hodgepodge of ideas and concepts from both 802.11b and 802.11a (see "What Happened to 802.11a?" p24). To work with AirPort, Extreme uses the same frequency as 802.11b—that'd be the very popular (and crowded) 2.4GHz range. But to attain higher speeds, it uses the same OFDM signaling methods as 802.11a—more on that later.

What's the Good and Bad News?

AirPort Extreme operates up to five times faster than previous AirPort technology, maxing out (in the carefully controlled confines of the lab) at 54 Mbps. That, of course, is the killer part of 802.11g.

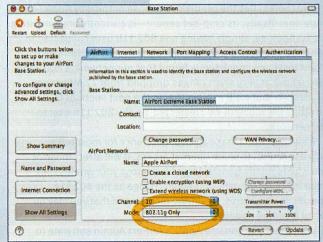
The fact that AirPort and AirPort Extreme operate in the unlicensed 2.4GHz range is both good and bad. The good part, of course, is that they are compatible with one another. AirPort users can connect to an AirPort Extreme Base Station, and AirPort Extreme users can connect to older AirPort Base Stations—at slower speeds, of course.





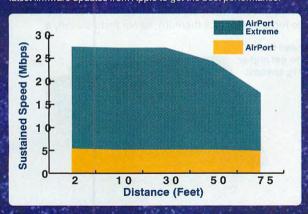
The bad part: The 2.4GHz range is as cluttered as the airspace over O'Hare (airport pun not intended—puh-lease). That means other devices in this range can cause interference: microwave ovens, high-end cordless phones, Bluetooth products, satellites, wireless cat-litter boxes. (OK, just kidding about the litter boxes, but it's not a bad idea, eh?) Also, each and every AirPort and AirPort Extreme Base Station uses approximately 30 percent of the available bandwidth of that spectrum, so you can really only have three Base Stations overlapping each other and covering the same area.

Unless you have a lot of kids or live in a commune, that's not likely to be a huge problem in your home. It is, however, an issue in offices or public areas where you want to connect lots of people at high speeds in one concentrated spot. But even home users need to be somewhat careful—having just one or two other devices operating in the 2.4GHz range can increase your chances of interference and incompatibility. You might have to choose between a 2.4GHz cordless phone and an AirPort network.



Choose the 802.11g Only mode to kick 802.11b users off your network.

As you can see from our in-home testing, AirPort Extreme can go much faster than standard AirPort. But make sure you're using the latest firmware updates from Apple to get the best performance.



Will AirPort Users Slow Down AirPort Extreme?

Like ebony and ivory, AirPort Extreme and AirPort should work together in perfect harmony. But in fact there is some discord: If you have 802.11b users on an AirPort Extreme network, they can potentially slow everything down.

Blame the technology. To achieve its higher speeds, AirPort Extreme encodes the data in a different way when sending the signal across the radio waves. AirPort uses a standard called DSSS (direct-sequence spread spectrum), and AirPort Extreme uses OFDM (orthogonal frequency division multiplexing).

Without getting too detailed, let's just say that by using OFDM, Extreme can cram more data into a given amount of bandwidth than AirPort can. The upside to DSSS is that it is a little more resistant to interference and has a slightly longer range (in the lab, anyway). The downside to DSSS is that it uses almost exactly the same amount of bandwidth as OFDM-that is, they each use every bit they can get.





Wireless in a Nutshell

Standard	802.11a	802.11b (AirPort)	802.11g (AirPort Extreme)	
Supported by Apple	Never	Since 1999	Since 2003	
Maximum Theoretical Speed	54 Mbps	11 Mbps	54 Mbps	
Maximum Real-World Speed	22 Mbps	5.5 Mbps	22 Mbps	
Typical Indoor Range	40 feet or within one large room, since walls pretty much stop the signal in its tracks	100 feet	30 to 50 feet for full speeds (18 to 22 Mbps); 100 feet for slower speeds (about 12 Mbps)	
Frequency	5GHz	2.4GHz	2.4GHz	
The Scoop	802.11a is about as popular as New Coke because of its pathetic range and lack of compatibility with 802.11b.	Public access points are popping up everywhere, from cafes to convention centers.	For now, 802.11g is compatible with 802.11b public access points. We expect most of those will probably convert to 802.11g eventually.	



And therein lies the problem. Because of the way Apple—or more specifically, its chip-set vendor—is currently implementing the technology, simply having one 802.11b user connected to your 802.11g network can significantly reduce performance. In our tests, we consistently found that our network's maximum throughput at very short ranges dropped from 22 Mbps (yep, 22, not 54—but we'll explain that in the next section) to 14 Mbps the moment we connected a poky 802.11b user to the network.

While that won't make a lick of difference for most folks who use AirPort to share Internet access, it will affect those of you who regularly transfer large files across your wireless link. Keep the faith, though—this could change as the 802.11g specification matures. Again, we recommend that you stay on top of firmware updates.

Until then, you can use Apple's AirPort Admin software to keep 802.11b clients from connecting to an AirPort Extreme Base Station. Open the AirPort Admin utility (version 3.0.1 or later), choose your Base Station, and then click Show All Settings. Here you can adjust Mode to 802.11g Only. Click Update, and all of your elite AirPort Extreme users should be good to go.

WHAT HAPPENED TO 802.11A?

IEEE 802.11a, which also operates at a theoretical 54 Mbps, has been approved and available for quite some time. No Mac-compatible implementations exist, and there aren't likely to be any in the future, since Apple is clearly committed to 802.11g.

That said, there are some pros and cons to 802.11a. The most obvious problems are that it only works within a very short range (think one room), and it's not backward or sideways compatible with 802.11b or 802.11g. It simply won't have anything to do with anything that bears the name AirPort.

It is, however, a much more robust technology, especially for corporate installations where short range, high bandwidth, and high user density matter. As opposed to AirPort's three distinct available channels (yes, three—see "Get the Most Out of AirPort," p22), 802.11a has 12 completely separate channels available. Yep, them's the perks of operating in the high-frequency 5GHz range. Still, don't expect to see it for the Mac unless the 802.11a mafia brainwashes Steve Jobs.

How Fast Is AirPort Extreme?

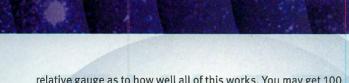
AirPort Extreme definitely beats AirPort in speed. Hands down. No questions asked. No ifs, ands, or buts—you get the picture. Even better, we got about the same range, given the same combination of clients and Base Stations. Different computers and/or Base Stations will affect your range—you know that if you used an iBook and then suffered through the crappy range of the first-generation PowerBook G4.

We did our testing in a four-bedroom home using a 12-inch PowerBook G4 equipped with an AirPort Extreme card and an Apple AirPort Extreme Base Station. To test the full speed of AirPort and AirPort Extreme, we FTPed a series of 50MB-plus files back and forth between two machines—one connected wirelessly, and one hard-wired directly to the Base Station.

Starting with the 12-inch PowerBook sitting right next to the Base Station, AirPort Extreme maxed out at about 22 Mbps while standard AirPort clocked in at about 5.5 Mbps. Remember: 54 Mbps and 11 Mbps are only the theoretical maximums for AirPort Extreme and AirPort. As we got farther from the Base Station, transfer rates held consistently for AirPort Extreme at up to about 30 feet, whereas AirPort held its maximum bandwidth out to almost 75 feet. At the 75-foot mark, reception began to falter for both AirPort and AirPort Extreme machines (see "AirPort Speeds," p23).

Be forewarned: Environment is the biggest contributing factor to radio reception (or lack thereof!), so our tests are only a





relative gauge as to how well all of this works. You may get 100 feet, or you may get 2. You may live in an open field, or you may live in a lead-lined safe room.

We also tested other wireless networking devices that support 802.11g. The Belkin 54g Wireless Cable/DSL Gateway Router has two external antennae that you can adjust and angle to improve performance. You can also stand the device on end, which gets the antenna a good 10 inches off the table. This can improve reception, and we noticed the biggest difference with—you guessed it—the 15-inch Titanium PowerBook. The TiBook's metal-encased antennae hiding under the keyboard get more signal and longer range with this extra boost. The Belkin router only minimally improved the range of the 12-inch PowerBook, which has the antennae in the screen bezel.

If you' decide to stick with Apple's Base Station, note that there are two models: one with an external antenna jack, and one without. For those of you who opt for the high-end station, you can spend even more money on the stylin' Dr. Bott antennae (see our reviews of the Base Station, p45, and the antennae, p51). Dr. Bott's extendAIR Direct allows you to focus the signal of your Base Station in one direction so you can connect two networks. The extendAIR Omni should increase your range by about 25 percent—not stellar, but if you're looking to reach a particularly tricky corner of your home or office, it might do the trick.

Honestly, though, you can get yourself a Belkin or Linksys router with adjustable antennae for less than half the cost of this arrangement. These alternatives might not yield the same range as the combination of a Dr. Bott antenna and AirPort Extreme, but they may satisfy your needs.

HIGH-SPEED WIRELESS: THE BOTTOM LINE

Lots of people use AirPort only to check email or sneakily look up *Jeopardy* answers from the couch in an attempt to look smart. If that's you, blazing AirPort speed won't make any noticeable difference in your wireless experience. But for those of you using your network to transfer large files or stream MP3s from computer to computer, faster AirPort can vastly improve your wireless experience.

Cable-modem and DSL connections (and, let's face it, those 1.544 Mbps T1s too) transmit data at speeds far slower than what even standard AirPort can handle—so upgrading to the faster AirPort Extreme isn't likely to make a lick of difference in your Web-surfing speeds. Where AirPort Extreme might help is in transferring data between two AirPort-equipped computers. Since that requires two AirPort connections to be active at the same time, speed takes an instant hit. AirPort Extreme can help ease that blow by providing additional bandwidth to those Macs.

That said, if you haven't yet gone wireless and are looking to cut your ties to the wired world, there's really no reason not to go with 802.11g. The 802.11g routers don't cost much more than their slower and older counterparts, and since everything's backward compatible, your system can still support any legacy AirPort hardware.

BUYERS' BASEMENT

Considering that we're talking about a standard that's not really a standard yet, there's no shortage of 802.11g products hitting the market.

Apple AirPort Extreme Base Station (\$249 and \$199, www.apple.com) and AirPort Extreme Card (\$99). The more expensive Base Station has a modern and a jack for an external antenna (see our review on p45). The other does not. Both offer USB ports for wireless printer sharing, and the more expensive model offers the option of dialing out of or into your home network.

Belkin 54g Wireless DSL/Cable Gateway Router (\$189.99, www.belkin.com). This router has two angle-adjustable antennae attached to the back, which means it offers an out-of-the-box range superior to that of the Apple products.

It's not as pretty or as white as the AirPort Extreme
Base Station, but the Belkin 54g router comes with
adjustable antennae.

Linksys Wireless-G Broadband Router (\$129, www.linksys.com). This is the 802.11g version of Linksys's most popular router.

Dr. Bott extendAIR Direct (\$149.95, www.drbott.com) and **extendAIR Omni** (\$99.95). These two antennae connect to the more expensive of Apple's Base Stations (see our review on p51).

The extendAIR Direct allows you to focus the signal of your Base Station in one direction so you can connect two separate networks up to 500 feet apart (so Dr. Bott claims). The extendAIR Omni can expand your AirPort range 25 to 50 percent beyond what the Base Station's internal antenna reaches (although that increase is more apparent to 802.11b users than to 802.11g users, due to the signaling methods each technology uses).





Most of you probably only occasionally connect one or more peripherals to your Mac—a cell phone, for example, or a Palm device or printer. However, you don't need to have them connected to your Mac full-time. In fact, it would be a lot easier if they weren't.

This is where short-range wireless technologies like Bluetooth and infrared really shine. Imagine syncing to your Palm while it's in your briefcase, or pulling out your laptop in an airport and checking email via your cell phone—all without plugging in a single cable.

Right now, Apple is hot on Bluetooth. So hot that it built Bluetooth support into Mac OS 10.2 and stuck Bluetooth in both

To get in on the wonderful world of Bluetooth, the first thing you need

Belkin Bluetooth USB Adapter (\$59.99 with antenna, \$49.99 without

antenna, www.belkin.com). Belkin is one of the only companies to

offer USB Bluetooth adapters featuring an extendable antenna that can broaden your range. Belkin also offers a compact version sans

This compact device is the one Apple sells on its site.

also sells a single adapter for \$69.96.

the 17-inch and 12-inch PowerBooks. It's also selling D-Link's tiny USB Bluetooth adapter on its site for \$49.95. Here's the skinny on Bluetooth and how you can incorporate this cool technology into your everyday life.

What Can Bluetooth Do?

Bluetooth provides a short-range, low-bandwidth, cheap way to rid your life of cables. If AirPort is wireless Ethernet, Bluetooth is wireless USB.

Bluetooth operates over radio waves. Like AirPort—and everything else, it seems—Bluetooth operates in the 2.4GHz range (we hear that 2.3GHz and 2.5GHz are now seeing therapists in an attempt to combat lifetimes of neglect). Bluetooth uses very low-power transmitters, which has two benefits—they're cheaper, and lower power means lower range, which limits interference with other devices. Bluetooth signals usually peter out at about 20 feet.

One exception is the Belkin Bluetooth USB adapter, which has an antenna you can raise (but is much larger than the D-Link adapter). The Belkin adapter just about doubled our effective range, even besting the range of the 12-inch PowerBook's built-in Bluetooth adapter. Though the 12-inch PowerBook has antennae in the screen bezel, they provided no noticeable range improvement over what the USB-based D-Link adapter gave us.

Bluetooth can handle conversations with up to seven devices at any time. Most of these are part-time connections—your keyboard and mouse will always be talking to your Mac, but the chance that you'll need to talk to your printer as it's corresponding with your Palm PDA, cell phone, and scanner is unlikely. The seven-device limitation shouldn't be a problem for most people—unless you're that good at multitasking.

Keyspan USB Bluetooth Adapter (\$59, www.keyspan.com). This basic adapter claims a 50-foot range.

D-Link DWB-120M USB Bluetooth Adapter (\$49.95, www.apple.com).

logear Bluetooth Starter Kit (\$109.95, www.iogear.com). This kit comes

with two adapters so you can network two computers via Bluetooth. logear

MacWireless Bluetooth USB Adapter (\$39.98, www.macwireless.com)
This is one of the cheaper adapters we found—and cheap is good.

Palm Bluetooth SDIO Card (\$129, www.palm.com). This SD card will fit into the expansion slot on the Palm i705, m515, m505, m500, m130, and m125 handhelds.

Palm Tungsten T Handheld (\$399, www.palm.com). This high-powered PDA has Bluetooth built in, allowing you to sync data with your Mac.

Sony Ericsson T68i (prices vary depending on service, www.sonyericsson.com/T68i). This tiny cell phone has long battery life, GSM and GPRS capabilities, and built-in Bluetooth. Available service providers in the U.S. include T-Mobile and AT&T.

How Fast Is Bluetooth?

Bluetooth is no racehorse, but its speeds are satisfactory for its purposes. It supports a few different modes (which are hardwired into the various peripherals) that dictate top speeds. In full-duplex mode (sending and receiving data at the same time), Bluetooth can transmit and receive data at 64 Kbps. Full-duplex mode is useful for voice communication—say, via a Bluetooth headset and telephone.

However, your peripherals usually only need to transmit data

is an adapter.

extendable antenna.



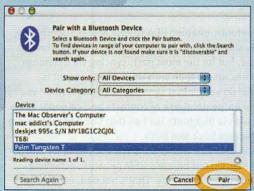
HOW DO YOU SYNC VIA BLUETOOTH?

We love the idea of syncing a Palm Tungsten T to our Mac, just for the sheer pleasure of not having to deal with that annoyingly long USB cable and clunky cradle. However, cordlessness does have its price: Syncing via Bluetooth is significantly slower than with USB, taking up to ten times as long. Still, count us in as fans of wireless syncing—but not of the rather unwieldy (but one-time-only) setup process.

To set up your PDA for Bluetooth syncing, start by going to the Devices tab in the Bluetooth system preference. Click the Pair New Device button.

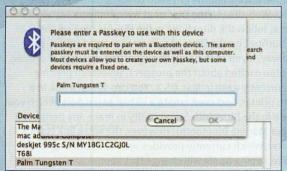


The wizard will show you all of the available devices. Make sure you've set your specific device as discoverable. To do this on the Tungsten, go to Preferences, click Communication, select Bluetooth, and set Discoverable to Yes. As long as your device is within 20 feet of your Mac, it should appear in this list. Select it and click Pair.



Some Bluetooth devices require you to enter a key on both the device and the Mac. This is a security measure to ensure that both your Mac and the device want to be paired with one another. If only this much discretion was the rule at bars...

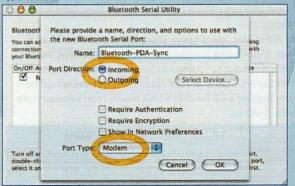
By the way, select a password that you can enter easily on your device. If you're pairing with a phone, choose numbers so you don't drive yourself crazy using the telephone keypad to type *Buffy* or whatever word you chose.



Once you've paired up your Mac and the device, make sure you've got a serial port set up for your PDA. For this, you'll use the Bluetooth Serial Utility (introduced in OS 10.2.4) in the Applications > Utilities folder.

000	🖯 🖯 Bluetooth Serial Utility							
Bluetoc	oth Ser	ial Ports						
connecti	ions wit	h Bluetooth		example, a port may	enable incoming or outgoing be used to synchronize with			
On/Off	Auth.	Direction	Name	Device	Service			
	No	In	BluetA-Syr	nc				
New Edit Delete								
Turn off any port you do not want to use by unchecking it. To change the name of a port,								

If you see a Bluetooth-PDA-Sync port, you're all set and can skip to the next step. Otherwise, click New, type a descriptive name for your new port, choose Incoming for Port Direction, and set Port Type to Modem.



If you're using a Palm OS-based PDA, open your HotSync Manager, choose the Connection Settings tab, and click the check box next to Bluetooth-PDA-Sync port (or the port you just created).

0 6	0	HotSync Software Setup			
/		HotSync Controls Connection Settings			
	On	Connection	Settings		
		bluetomodem	bluetooth-modenknown> modem		
40	V	bluetonc-port	bluetooth-pda-sAs fast as possible		
	8	internal Modem	Internal Modemnknown> modem		
		@ PalmConnect	PalmConnect		
	0	€ USB	USB		

Now you need to create a Bluetooth sync profile on your PDA. On the Tungsten, go to Preferences, choose Connection, click New, and name it Bluetooth. Choose PC as the type of device to connect with, choose Bluetooth as the connection method, and then select your Mac's name from the list of available Bluetooth devices.

That's it! You're ready to go. Navigate to the HotSync icon on your Palm, choose Bluetooth from the pull-down menu, and press the sync button.

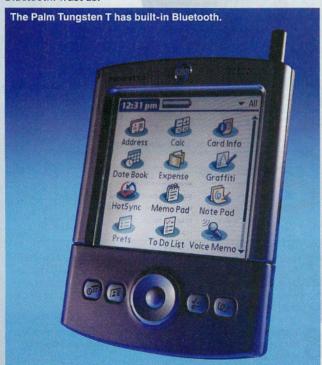






in one direction-in half-duplex mode. In this mode, Bluetooth operates quite a bit faster, maxing out at 721 Kbps in one direction (sending) and 56 Kbps in the other (receiving). Another type of half-duplex mode splits the signal evenly, allowing transmission in either direction at 432 Kbps, but not at the same time. In a nutshell, Bluetooth operates at about half the speed of the slowest USB link, which clocks in at 1.5 Mbps (and maxes out at 12 Mbps).

As all jaded Mac users know, though, the real world has a funny way of upending promised speeds. For instance, our file transfers maxed out at 32 Kbps between two Macs spaced less than 5 feet apart. That's fine for small files, but you would be better off burning a CD for that 50MB movie than sending it via Bluetooth, Trust us.







Syncing a Bluetooth-enabled PDA to your Mac is superhandy, but significantly slower than syncing via USB. We got different results each time, but for the most part, syncing via Bluetooth took up to 10 times longer than with USB. The speed hit is especially painful on your initial sync because that's when you're transferring your entire database of contacts and calendar items. After that, syncing via Bluetooth isn't all that bad because you're only sending changes back and forth.

Using T-Mobile's service with a Sony Ericsson T68i, we surfed the Web on our Mac via our phone's GSM network, achieving consistent speeds of over 40 Kbps. That's not bad, especially compared to our hotel room's phone lines, which were limited to 28.8 Kbps. (This technique is also useful in public places where there isn't an AirPort network). Unfortunately, the setup involved in getting this ploy to work is neither easy nor well documented. Fortunately, we've done the work for you.

First, you need a modem script that tells your Mac exactly what commands it should send to your phone to get it to work properly. We used the Ericsson GPRS Scripts from Ross Barkman's Web site (on the Disc or at www.taniwha.org.uk). From there, follow the directions in the PDF file "Set Up the T68i for Web Surfing" on the Disc.

By the way, if you're thinking about cutting ties to your printer, don't get too excited about the prospect. Bluetooth printing doesn't currently work in Mac OS X. You can set up a link to a Bluetooth printer, and even create a virtual serial port (which you need to do in the Bluetooth Serial Utility to make any peripheral talk to your Mac via Bluetooth). However, the weak link is OS X's Print Center, which currently provides no way of printing to that port. We're hoping Apple will change this soon.

How Do You Transfer Files with Bluetooth?

Using Bluetooth to transfer files between two computers is awesomely convenient. Of course, you need two Bluetooth adapters—but what's a hundred bucks when you're paying for ultimate convenience? Bluetooth file transfer is even easier to set up than the AirPort-based Rendezvous—simply select a file and a destination device, and go.

Select the file you want to send and drag it onto the Bluetooth File Exchange utility (in the main Applications > Utilities folder). Or you can place a Bluetooth menu in the menu bar. To do that, navigate this very intuitive hierarchy of folders (System > Library > CoreServices >



Menu Extras) and drag Bluetooth.menu to your menu bar. To send a file, choose Send File from the Bluetooth menu item.

The Bluetooth File Exchange Utility shows a list of all the Bluetooth devices available to your Mac. Just pick one and click Send.

The receiving computer will ask its owner to accept this file. As soon as that person agrees, the transfer starts. See? Much better than logging in to a server or fishing around for a Zip disk or USB Flash drive.





SHORT-RANGE WIRELESS: THE BOTTOM LINE

If you have more than one Mac and are constantly shuttling small files back and forth, or if you want to use wireless devices like the Sony Ericsson phone or the Palm Tungsten T, Bluetooth is wonderful. Even though its transfer speeds are slow, Bluetooth impressed us, especially when you consider the convenience of not having to crawl under your desk to plug cords into the back of your computer.

After spending all this time surrounded by wireless technology, MacObserver.com president Dave Hamilton was last seen building a room with 3-foot-plus thick lead walls, mumbling, "Too much RF makes Dave a dull boy."

ALTERNATIVE CORD-CUTTING MEASURES

If you're tired of constantly tripping over a cord when you work, play games, or surf the Web, it's time to untether your mouse—and even your keyboard. Right now, most cordless mice and keyboards use their own proprietary radio or infrared connections, although some companies, like Microsoft, are starting to move wireless peripherals to Bluetooth (Microsoft doesn't offer Mac software for its Bluetooth products yet).

Kensington Turbo Mouse Pro Wireless (\$142.99, www.kensington .com) and **PocketMouse Pro Wireless** (\$49.99). Both of these products are similar to their wired counterparts.

Keyspan Digital Media Remote (\$49, www.keyspan.com). This very cool device allows you to control your Mac with a remote.

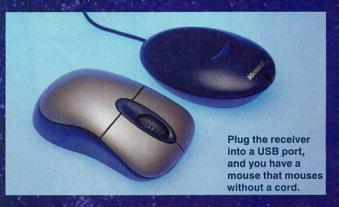
Logitech Cordless Navigator Duo (\$79.95, www.logitech.com). Logitech offers tons of cordless keyboard-and-mouse combos, but this is a good midprice one.



MacAlly RFKey (\$69, www.macally.com) and RFMouseJR (\$49.99). MacAlly's wireless keyboard and wireless mouse are good for users on a budget.

Targus Wireless Optical Mini Mouse (\$49.99, www.targus.com). This inexpensive wireless mouse is built for the traveling Mac user.

Microsoft Wireless Optical Desktop (\$84.95, www.microsoft.com), Wireless IntelliMouse Explorer (\$64.95), and Wireless Optical Mouse Blue (\$34.95) The Wireless Desktop is a keyboard-and-mouse combo. The IntelliMouse Explorer and Optical Mouse Blue are both solid devices.



M/IOat Heart





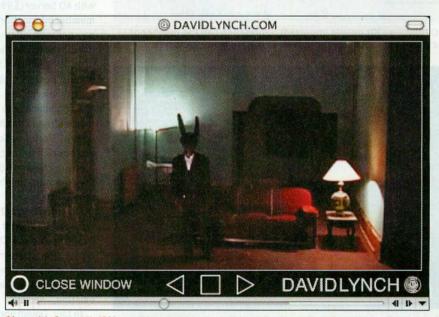
David Lynch has always been known for his unique and very un-Hollywood films. Now he's using the Mac to create an equally unique Web experience, one that people actually pay for.

pend some time in David Lynch's online fantasy world, and you'll find birds feeding in a dark industrial wasteland, with only a thin shield protecting them from ravenous rodents. In reality, these birds perch happily on a bird feeder (the antisquirrel variety) in the backyard of Lynch's estate. The feeder sits in front of a 2D backdrop.

Leave it to David Lynch to turn banal backyard activities into a sinister, if not bizarre, video experience. This kind of innovation pervades the filmmaker's subscription-only Web site (www.davidlynch.com), designed and served completely on Macs.

Lynch is famous for his unusual brand of filmmaking. His 1977 cult classic *Eraserhead* and stylized sci-fi epic *Dune* paved the way for more mainstream hits like Blue Velvet and the TV series Twin Peaks. Other cinematic credits include the rampant road rage of Wild at Heart, the real-life story of a man who crosses the Midwest on a tractor in The Straight Story, and the sultry confusion of his recent movie Mulholland Drive. Innovative is the only way to describe Lynch's eccentric array of work.

Innovation also embodies
DavidLynch.com, a largely black-andwhite film-noir Web experience. Lynch
eschews stick-straight navigation bars for
a more meandering road map. The handdrawn zigzags on the main site map (The
Switchboard) take you to a variety of Flashintensive pages, riddled with hidden links
and enigmatic information (read: hidden
jewels for die-hard Lynch fans). Activities
like the phone game, where you dial a
deceptively random assortment of Flash-



Shot with Sony MiniDV cameras, *Rabbits* is the type of experimental series you can launch only on the Internet.



Wildat Heart

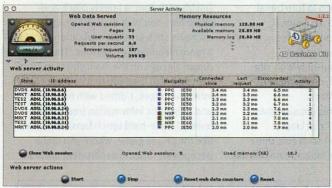


enabled rotary phones, seem cryptic at first. But like watching a Lynch film over and over, the more you play, the more you discover and the deeper into the game and into the site you go. Members pay \$9.97 a month for the privilege of staying tuned into the Lynch experience.

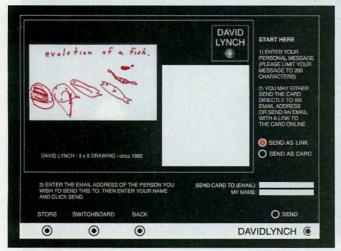
The Art of Web Video

The Web site's mainstay is its animations and movies, which Lynch and his team shoot on MiniDV cameras and edit with Final Cut Pro. Without film producers and television execs breathing down his neck, Lynch has unleashed his imagination on four main projects for his Web site. *Rabbits*, starring *Mulholland Drive*'s Naomi Watts and Laura Elena Harring dressed up in rabbit costumes, is a surreal episodic series shot with Sony PD-100 MiniDV cameras. *Dumbland*, which Lynch animated in Flash, is a seven-part line-drawn raucous cartoon. *Cannes Diaries*, also shot in MiniDV, is a live-on-location series documenting the Cannes Film Festival. (Both *Mulholland Drive* and *Wild at Heart* won awards at Cannes.) Lynch remains tight-lipped about his new live-action mystery series called *Axxon N*, due out this year.

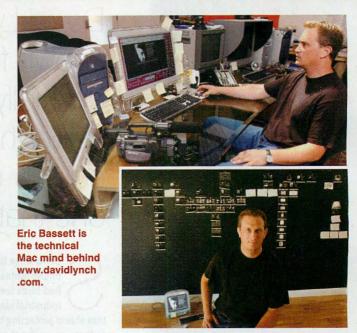
While the Internet is the perfect medium for experimental shorts and series, it presents its share of problems. For instance, Web video has trouble showing off certain David Lynch trademarks such as his penchant for the color red. According to John Worthington, Discreet's director of product management for desktop video, red reacts differently to the separate gamma curves on Macs and PCs.



4D Business Kit details important information like the number of pages users request and the Web server's memory allocation.



Managing Consultant Eric Bassett of DavidLynch.com uses 4D Portal to let users create custom cards with Lynch's artwork.



To help Lynch's filmmaking style shine through the technicalities of Web video, Managing Consultant Eric Bassett uses Discreet's Cleaner (\$599, www.cleaner.com) to clean up the video, the Sorenson 3 codec to compress it, and the QDesign codec to compress the audio. Bassett hopes to move to MPEG-4 encoded video.

Web Serving the Mac Way

With 750,000 daily hits, the site is powered by 14 Power Mac G4s, 4 iMacs, and one lone PC for secure ecommerce transactions. All will soon be replaced by Xserves. Akamai servers deliver the bulk of the video. Bassett drives the site with 4D server software, databases, and application-development tools. Using a custom application developed in 4D Developer Edition (\$799, www.4d.com) and run with 4D Server (\$899), he manages a nest of 4D databases that hold member information (names, demographics, and log-in information), pay-per-view video-download licenses, and store transactions. The databases talk to the 4D WebStar Server Suite (\$299), and Bassett uses 4D Business Kit to manage the store, which is stocked with photos, posters, hats, coffee mugs, CDs, and collectible DVDs of Lynch's short films.

As on almost any interactive Web site, visitors chat—and Lynch himself frequents the rooms daily. To monitor the powwows, Bassett uses 4D Portal, which lets him quiet down ALL UPPERCASE chatters and squelch the occasional tirade. As for the members, they are a diehard bunch—and 40 percent of them are Mac users. "They're funny, they're smart, they're fun-loving, so it's interesting to talk to them," says Lynch.

One member, a 25-year-old software developer named Matthieu Gosset (aka *zygron* in the chat room), has been a serious Lynch fan ever since he saw *Dune* in 1984. He's developed a community area on the site, where members post pictures and information about themselves. He likes the site because it's authentic David Lynch. "The site makes great use of Flash and doesn't look like anything existing," he says.

In fact, DavidLynch.com is much like a David Lynch flick, where you expect the unexpected and are amazed at the outcome.





Q&A with David Lynch

MacAddict caught up with David Lynch in his breathtaking Hollywood Hills home, where we talked to him about the untamed world of Internet movies.

MA: How is making an Internet movie different from making a full-length feature movie?

DL: A lot of times you get little fragments of ideas and they don't go anywhere because there's no place to share short things. Except now, there's the Internet. So on DavidLynch.com there are short experiments [and] all these things that are based on ideas that would have not gone anywhere had it not been for the Internet.

MA: So is that why you created movies in series on DavidLynch.com?

DL: There's something very beautiful about a continuing story, but television got scared of continuing stories, because they did surveys and polls, and found out that many people couldn't for one reason or another see a show every week....So it could be that [the Internet] is a great home for a continuing story.

MA: Do you shoot your episodes all at one time or over longer periods?

DL: Both. It's so expensive to get geared up and shoot something [so] you really try to get a bunch of raw material and cut it into episodes. But you still need scripts. You need to have a place to put the set, find locations. You've got to get a crew together. It's a mini movie, but you'd be surprised how much time, money, and effort even a small thing takes.

MA: What cameras do you use?

DL: [Sony] PD-100s, and it's real bad quality, but that's what I like.

MA: Is it a different experience for the actors, knowing the movie is going to appear on the Internet versus a more traditional medium?

DL: Yeah, the word that comes to mind is bummer. [Laughs]

MA: How did you get people like Naomi Watts and Laura Elena Harring to work on Rabbits?

DL: Bribery and things like that. [Laughs] No, they turned out to be friends, and so it's fun. I'm sure that they didn't really know what Rabbits was going to be or where it was going to go, so it's kind of interesting. They got to take a little bit of a chance but have fun along the way.

MA: Is some of your cinematic style detailed, stylish backgrounds, red rooms—difficult to view on the Internet?

DL: On the Internet, if you want to show details you just have to do it in a different way...You can see things—details—sort of, but if you want to sell a plug in a socket, you've got to get in very tight, and if it's not quite right, you move in a little tighter. You can see on the screen exactly what you're going to get. You can record it and play it back, so there's plenty of opportunity to show every single thing.

MA: Do you see DV going more mainstream?

DL: It isn't film but it has its own feel, so if a story comes up in your head that marries to that particular kind of feeling—like a DV story as opposed to a higher-quality film story—then you go and say this story is going to be better in DV than in film. And there are those kinds of stories. There are no rules, but you're kidding yourself if the story doesn't marry to the medium.

MA: Do you feel compelled to create content every month for DavidLynch.com?

DL: If it were like TV where you had to do content on a schedule, I think I would by now or very soon shut it down. It ceases to be fun....Fun also means that your mind is open to new things. You cook up something when things are fun, so it's just gotta be that way or it can't work.

MA: So are you a Mac guy?

DL: Yes, I'm a Mac guy....The whole world up here is built on Macs.

MA: About how many Macs do you have? EB (Eric Bassett): 50.

MA: What's your favorite application?

DL: I love [Adobe] After Effects, and [Adobe] Photoshop is one of my favorite places to go any day of the week....I love [Macromedia] Flash, but After Effects is way more organic.

MA: What are some of the technological advancements you're looking forward to that will make a difference to what you do?

DL: Ease of getting what you want. What you want is a program that doesn't have a learning curve of two or three months, where your brain is aching until it finally falls into place. Where you just pick it up and say "Oh"...and you start feeling your way through instead of thinking your way through. I'm telling ya, that's going to be killer.

Senior Editor Narasu Rebbapragada's favorite David Lynch movie is *Blue Velvet*. She's currently stuck in a phone booth somewhere on the Web site.

THERE'S A LOT OF UNTAPPED POWER IN

thousands of hardworking, fanatical gamers and programmers are working feverishly to make your favorite games even better. By spicing them up with new weapons, skins, furniture, maps, and even gameplay (bonus: almost all of them are free), you can experience your faves in a whole different way. To help you out, we spent months playing trickedout versions of the best and most recent Mac blockbusters, from The Sims to Jedi Knight II, from Max Payne to WarCraft III—yep, it's a tough job, but somebody's got to do it. So what are you

waiting for? Read on for free fun.

t this very moment,

ON THE DISC
WarCraft III demo,
WarCraft III Bonus
Maps, and

Sims Objects

by John

l ee

YOUR GAMES. NOW'S THE TIME TO UNLEASH IT.

Plastic surgery for your games—without the scars.

tired of inhabiting, for example, Joe Townie in The Sims, what you need is a new look—a new skin to crawl into, if you will.

Adding skins and objects to your game can greatly increase your options by giving you new weapons, fancier furniture, or even a new face and outfit. You can sometimes find new skins

already in the game, hidden from view until you earn the right to use them. Spider-Man (\$9.95, www.aspyr.com) is a dandy example. Winning levels gives you access to new skins. Instead of donning his usual red-and-black webfighting gear, Spidey can go into battle wearing lavender leotards and puce boots. If that doesn't make you feel sufficiently emasculated, put him in a baby-blue costume with a paper bag over his head. If you



There are skins galore that you can unlock in Spider-Man-including this interesting costume.

just can't wait, activate the cheats for Spidey and change your look sooner (for more on finding cheats, see "Your Cheating Heart," p37).

There's also a hard-working battalion of third-party programmers cranking out hundreds of new skins for the biggest games. Want to go into battle as Anakin in



Jedi Knight II: Jedi Outcast (\$49.95, www.aspyr.com)? Head over to JediKnight II. net (www.jediknightii.net) and you'll locate hundreds of skins just waiting to be downloaded. Installing these new skins is a cinch-just download the skins files, which have a .pk3 extension, and stick them in a folder named base with the other .pk3 files.

If you're a dedicated fan of The Sims (\$44.95, www.aspyr .com), you'll find designers of clothing, furniture, walls, floors, and anything you can think of hard at work on Sims paraphernalia—just visit one of the many Sims fan sites. But

first hit up Aspyr's site, which offers several bonus skins and objects, including new cat and dog breeds (for The Sims Unleashed expansion pack), a Pepsi machine, and new skins. Simply download and run the installers, and the new stuff will show up the next time you play.

Replace your lame Sims outfits with fancier duds



THE DEHT LEVEL

THE NEHT LEVEL

Using objects and skins from fan sites is slightly more involved-but not much. Surf over to one of the gazillion Sims fan sites and download the objects of your desire. Some good sites include Sims 4 Mac (http:// sims4mac.com), Around The Sims (http://aroundthesims .online.fr), 7 Deadly Sims (www.7deadlysims.com), The Sim Land (www .thesimland.com), and The Sims Resource (www .thesimsresource.com)-this



Overcaffeinate your Sims with this Pepsi machine.

last one charges a subscription rate of \$26.95 a year.

To get your new objects and skins into the game, place them in the appropriate folder—go to your Sims > GameData folder, and there you'll find folders called Floors, Skins, Objects, and so forth. Within the games, specific items may not be available when you view objects by subcategory, but you should see them when you look at entire categories. To find a floor lamp in Buy mode, for example, view all lamps, not just the floor lamps.

There's only one problem—and you can blame it on OS 9. Many objects and skins weigh in with long names, but The Sims (which came out three years ago just for OS 9) still adheres to the stupid 31-character limitation set by that OS (yep, even the Carbon version of The Sims). To get around this, download bangsplat's SkinShrinker (free, www.bangsplat.cc), which shortens the names so your game will recognize them.

If you're truly narcissistic, put your own face in the game. A New York outfit called CyberExtruder (www.cyberextruder.com) will work from 2D photos to turn you into a fully developed 3D model for \$4.95 (or as little as \$2 each if you order ten faces), letting you put yourself in games like Return to Castle Wolfenstein (\$39.95, www.aspyr.com), The Sims, and Unreal Tournament 2003 (\$49.95, www.wizworks.com/macsoft). Any Mac image comes with an easy installer that makes joining a game dirt-simple.

Don't have \$4.95 to spare? (Hey, that is practically the cost

At least your Sims can still boot up in OS 9—that is, if you buy them this Cube from 7 Deadly Sims.

of a Starbucks Venti mocha.) You're in luck: CyberExtruder has cobbled together a whole rogue's gallery of well-known faces that you can use to test out the program. You can exploit George Bush, Mel Gibson, Einstein, Denzel Washington, Angelina Jolie, and a host of other famous faces.

MARS

Entire new terrains, environments, and worlds for the exploring.

ust as skins change the appearance of your players, new maps give you fresh territory to explore or conquer. A map—the virtual arena in which your action takes place—may be a meandering collection of corridors in some castle dungeon, or a woodsy area with scattered houses, grassy trails, and lurking monsters.

As with skins, you can usually download maps for free. To start, drop in on MacGameFiles (www.macgamefiles.com) or MacUpdate (www.macupdate.com), both of which list Mac-compatible maps, mods, and skins. Later, when you know your way around and feel braver, you can go foraging through humongous PC-centric Web archives like GameSpy (www.gamespy.com) for even more Mac-compatible maps (plus skins and mods).

Download times will vary, of course. Some map packages, such as the 132K Green Island scenario for **Tropico** fans (\$39.95, www.wizworks.com/macsoft), are small and easy to grab. At the other extreme, **Rogue Spear** multiplayers (\$39.95, www.wizworks.com/macsoft) can download an 18MB Treasure Island map based on Alcatraz. Many games will have some kind of maps folder where you can stick new maps—but if not, read the instructions that (we hope) come with the downloaded file.

OK, so you're feeling a little more adventurous (or bored). Games like **WarCraft III** (\$49.95, www.blizzard.com) provide



editing tool sets on the game CD (you'll need Mac OS 10.1.3 or later to run it), which allow you to create your own maps with an assortment of palettes and tile sets. A palette is a panel teeming with items you can plant in a given area—these may be monsters, textures, heroes, trees, or buildings. A tile set usually offers items that go together—a forest tile set, for example, might include tiles of trees, rocks, stone ruins, and streams.

Completed WarCraft III maps go into a folder called Maps. When you're ready to try out your new masterpiece, press Control-F9 to bring up a list of maps and select yours. If you're a gamer and not a cartographer or an arteest, then try out a map created by someone who is. Start at Blizzard Entertainment's official WarCraft III site (www.battle.net /war3/maps) and then hit up fan sites like The Unofficial WarCraft III Maps and Mods Site (http://maps.warcraftiii.net) and WarCraft.org (www.warcraft.org/w3m), which offer more than a thousand fresh maps. That's a lot o' new territory.

From simple tweaks to full-scale makeovers.

or a full game makeover, try a mod—short for modification or module. These gems can simply add a few new features or can perform a total transformation, including a complete change of rules, physics, weapons, enemies, and environment. Though you can usually download a mod for free, you still need a full retail version of the original game to make it work. (By the way, many gamers make a distinction between mods and modules-mods is a stronger word that implies a major change to a game.)

Here's a little piece of trivia: Mods got their start back in the early 1980s, when a couple of Smurf-hating suburban high-school kids hacked the Apple II version of 3D Castle Wolfenstein and developed a laugher called Castle Smurfenstein (www.evl.uic.edu/aej/smurf.html). Publishers quickly caught on. Game developers seldom provided help to amateurs in Smurfenstein's day, but now they routinely offer editing tools for their games.

A flood of fan sites offer thousands of mods. They come in all sizes and can take considerable time to download—in fact, here's your excuse to invest in DSL or cable. For example, the Quake III Fortress mod, which creates a more team-oriented experience on the Internet, measures a hefty 140MB. Or swallow hard and start downloading StrikeForce 1.80, an Unreal Tournament add-on, at 381MB. This mod contains 180 changes and fixes, including new OpenGL drivers, new reload sounds, slower firing for some weapons, faster firing

DUR CHEATING

Can't figure out how to get past that seemingly impossible level in the game du jour? Plenty of online help can keep you from banging your frustrated head against your Mac (ow!). If a game is baffling you, first try its official site for hints and strategies. If that doesn't help, look for a detailed walkthrough on sites like The Adrenaline Vault (www.avault.com), Universal Hint System (www.uhs-hints .com), and The Gamer Zone (www.gamerzone.com), to name just a few.

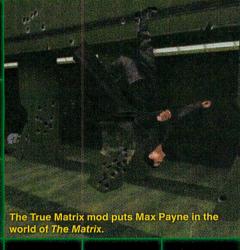
Or maybe you simply want to rip through monsters and villains without taking any damage. Looks like you need some cheats. Try CheatingPlanet (www.cheatingplanet .com), Cheat Code Central (www.cheatcc.com), or Cheatportal (www.cheatportal.com). Don't want to work anymore in The Sims? Just press Command-Control-Shift-C and type the word rosebud to get richer by 1,000 Simoleons. Want to go into third-person view in No One Lives Forever (\$49.99, www.macplay.com)? Press the T key, and then type mpasscam.

But before you enter that secret code, just make sure you can live with yourself. Yeah, we thought you could.

for others, and so on. If broadband isn't an option for you, some developers will burn a CD for a small fee (like \$2 to \$4).

Many mods are Mac ready, though you'll want to read summaries or check out a mod's FAQ to be sure. If you're feeling nervous, check with MacGameFiles or MacUpdate to make sure the mod's on the list. Be adventurous, though, and you can find even more Mac-ready mods hiding out there in PC land.

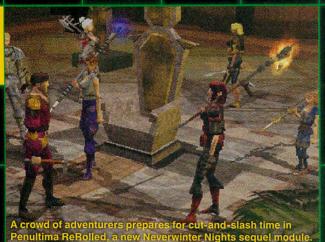
For example, MacSoft says many PC mods work with Max Payne (\$49.95, www.wizworks.com/macsoft). One of the coolest is True Matrix, which converts Payne's adventures into a version of The Matrix, complete with new weapons, characters, and even music from the film. Download it at Max Payne Headquarters (www.maxpayneheadquarters.com), and move the mod to the root level of your Max Payne folder. You may need to add the extension .mpm at the end of some







THE NEHT LEVEL



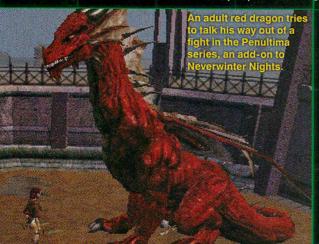
Max mods to make them show up. To choose a mod in Max Payne, fire up the game and press Option-D. You'll see a Choose Customized Game option. Pick True Matrix or any

other new Max Payne mod.

Then there's Neverwinter Nights (\$49.99, www.wizworks .com/macsoft), which comes with the Aurora tool set and three applications: NWN main, the application for single-player games; the NWN client, which allows you to go online and join games on NWN servers; and a NWN server for hosting your own games. You can use the tool set to write your own mods, or with the NWN client in place, you can pop over to Stratics (www.stratics.com) or Neverwinter Vault (www.nwvault.com), where you can find more than 500 new multiplayer adventure modules.

Here's a little trick for gauging the coolest stuff: Check the number of downloads. Some of the most popular Neverwinter Nights add-ons come from a Neverwinter fanatic, Stefan Gagne, who has been creating mods for ten years and has made a humorous six-mod Neverwinter Nights campaign called Penultima (download from Neverwinter Vault). Try Penultima 1: Pest Control, which lands you in a mine beset by a tribe of goblins, or Penultima 2: Dewey's Decimal, which puts you in a magical library. If you enjoy these early adventures, go for the entire Penultima package, including Penultima ReRolled, Gagne's new sequel campaign.

BioWare says that to install NWN modules, you place them



in your modules folder; if the downloads come with a HakPak file (which lets the module use new game content), copy it into the hak folder. To play a module, start a new game, then select Other Modules and pick the one you want. Since the game wasn't out at press time, we couldn't test whether this worked, but BioWare swears it's so.

The unexpected gift at the bottom of your stocking.

n Easter egg is an amusing special event, hidden deep within a game or app, that will reveal itself only if you follow the correct steps. Such hidden tidbits seldom have any useful purpose beyond entertainment—um, kinda like games in general.

Diablo fans all know by now of the secret cow level in



Diablo II: Lord of Destruction (\$29.95, www.blizzard.com). First find Wirt's Leg in Tristram. Put it in the Horadric Cube with a Tome of Town Portal, and you open a new portal to Tristram. Only this time, instead of monsters, you'll encounter a mob of marauding warrior cows, walking upright on hind legs and crowding toward you with malicious intent, chanting their savage war cry of "Moo! Moo!"

Another classic egg comes in Dark Castle (\$24.95, www.deltatao.com). If you play on Christmas day, the opening scene replaces a giant statue in the entry hall with a Christmas tree. Unlike in normal life, you don't actually have to wait until Christmas to unveil your surprise—just reset your Mac's calendar, and the game won't be the wiser. Similarly, play Black & White (\$34.99, www.macplay.com) on April Fools' Day, and your monsters will leave smiley faces in the

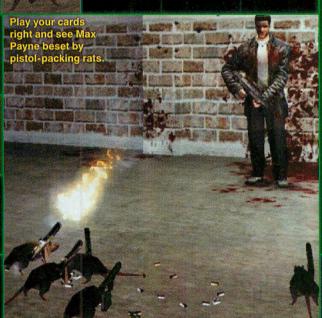
dirt instead of their regular footprints.

For a truly complex egg, meet an army of armed rats in Max Payne. The rats are hidden early in the game in Part 1, Chapter 2. First, you must enable cheats—to do that, launch the game, then hold down Option-D. Click the image of Max in the first window that appears. Click the buttons for Developer Keys and Developer Mode. Once you're in the game, press F12 and type <code>getallweapons</code>. When you find a hole in the wall, throw a grenade through it. Keep going until you hear an explosion, then go up the stairs and wait. You'll soon be facing an army of rats. If you want another surprise, throw a Molotov cocktail at them.

Max has other eggs as well. In Part 1, Chapter 3, break down the door just before the toppling boiler. Go through the door and out a window. Follow a trail of blood on the ledge to another window. Inside, you'll see a dead man with a wooden stake in his back, and the name of his killer, Buffy, partially written in blood on the floor. You can collect goodies inside by breaking the window and entering.

We'd also like to drive a stake into the heart of an enduring myth: the secret "nude" code that would supposedly unlimber a fresh new look for Lara Croft in Tomb Raider (\$29.95 for the trilogy, www.aspyr.com). Sweaty-palmed teens have spent thousands of hours trying to hack Lara's secret codes so they could watch more than just her bouncing braids as she leaps from crag to crag. But they've

wasted their dedication. The nude code doesn't exist. Never has—give up, guys. But don't despair—you'll find tons of other hidden amusements at Egg Heaven 2000 (www.eggheaven2000.com) and The Easter Egg Archive (www.eeggs.com).



QUICK GUIDE

Some games inspire a huge outpouring of emotion on the Web. Here's where to go to get the goods on some of your favorite games.

If you're into Unreal Tournament 2003:

PlanetUnreal-UT 2003 (www.planetunreal.com/ut2003). News, files, and forums for Unreal Tournament 2003.

If you love Neverwinter Nights:

Neverwinter Nights Fan Sites Links (http://nwn.bioware .com/links/viewcat.html?c=15). An abundance of links to fan sites.

If you're a chick and you love Neverwinter Nights:

Ladies of Neverwinter (www.ladiesofneverwinter.com). A support community for women players of Neverwinter Nights.

If you're obsessed with Max Payne:

Deep Six (www.3dap.com/maxpayne). A strong fan site for Max Payne news, mods, and files.

If you can't stop playing The Sims:

Around The Sims (http://aroundthesims.online.fr). Downloadable objects, plus links to hundreds of fan sites.

If you love Tony Hawk:

PlanetTonyHawk (www.planettonyhawk.com). Cheats, moves, walkthroughs, and everything you need to get through Tony Hawk.

If you can't get enough of Jedi Knight II:

Jedi Outcast (www.jedi-outcast.com). Fan news, FAQs, and files for Jedi Knight II.

If you're into Ghost Recon:

Tom Clancy's Ghost Recon (www.ghostrecon.com /links.php). Links to tons of Ghost Recon stuff on the Web.

If you're looking for add-ons:

MacGameFiles (www.macgamefiles.com). You'll find a whole section on add-ons.

MacUpdate (www.macupdate.com). Tons of updaters for your favorite games, plus a few mods and skins.

Game Spy (www.gamespy.com). It's PC centric, but you can still find mods and skins that work on the Mac.

If you're looking for Easter eggs:

Egg Heaven 2000 (www.eggheaven2000.com). Tons of old-school and brand-new Easter eggs.

The Easter Egg Archive (www.eeggs.com). Lots of cool Easter eggs, including user ratings.

If you're experiencing bugs in your games:

The Patches Scrolls (www.patches-scrolls.de). Patches and updates for hundreds of Mac games.

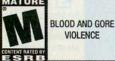
If you want more info about a game:

Mac Game Database (www.gamedb.com). News, features, reviews, and forecasts for more than a thousand games.

John Lee, who reviews games for MacAddict, plays his games over and over until his entire household pleads for mercy.













MacSoft

Unrear® Tournament 2003 Copyright 2002-2003 Epic Games, Inc., Raleigh, NC USA. Unreal and the Unreal logo are registered trademarks of Epic Games, Inc. ALL RIGHTS RESERVED. MacSoft is a registered trademark and Destineer is a trademark of Destineer, Inc. All other trademarks and trade names are the property of their respective owners. Unreal Tournament 2003 was created by Digital Extremes in collaboration with Epic Games, Inc. The Macintosh version is manufactured and marketed by Destineer, Inc. under license from Epic Games, Inc. The Atari trademark and logo are the property of Infogrames.

EVIEWS * 41

better living through smarter shopping

ontinuing this month's alien mother ship theme, we cued up some spacey theremin music and took the SpaceShuttle A/V controller (pictured below) for a spin. It made our video editing in Final Cut Express absolutely dreamy, and took some (not all) of the pain out of our iMovie experience. We also took the checkered flag in NASCAR Racing 2002 Season, forged our own font with

FontLab, and kicked some evil-axis ass (old school) in World War II Online. Coming soon: When we get our grubby mitts on the elusive 17-inch PowerBook and 1.42GHz Power Mac. vou can bet we'll

kiss and tell.





Mac delice RATINGS

MacAddict RATED 00000 AWESOME

You'll be blown away.

MacAddict RATED GREAT

You'll be impressed.

MacAddict RATED 00000 SOLID

You'll be satisfied.

MacAddict RATED **50-50**

You'll be disappointed.

MacAddict RATED 00000 LOUSY

You'll be pissed off.



Compatible with Mac OS X or later.



Compatible with Mac OS 9 or earlier.



If we were shopping for this type of product, this is the one we'd buy

This**Month:**

- 45 AirPort Extreme wireless network in a box
- 48 Cinema 4D 8 XL 3D-modeling and -animation software
- 42 Coolpix 3100 3.2-megapixel digital camera
- 51 extendAIR AirPort Extreme antennae
- 44 Final Cut Express 1.0.1 video-editing software
- 58 FontAgent Pro 1.1.2 font-management and -repair software
- 53 FontLab 4.5.1 font editor
- 59 Freestyle Speedball notebook riser
- 46 iLife multimedia suite
- 57 Momo Racing Wheel USB steering wheel
- 57 NASCAR Racing 2002 Season racing game
- 56 Spamfire Pro 1.3.2 antispam utility
- 51 SpaceShuttle A/V AV controller
- 56 Spell Catcher X 10.0.1 spelling checker 52 Storm 2 software music studio
- 59 StudioMouse Wireless wireless mouse
- 42 Stylus 300 Digital 3.2-megapixel digital camera
- 58 The Sims Unleashed Sims expansion pack
- 59 UFO USB and FireWire hub for iMac G4
 50 VR Worx 2.1 QuickTime-VR authoring software
- 54 World War II Online massively multiplayer online game

PLUS:

The**Hot**List

60 The best of the best from recent reviews.



The Nikon Coolpix 3100 is the best point-and-shoot



The Olympus Stylus 300 Digital's weak flash and weird controls

Nikon Coolpix 3100 vs. Olympus Stylus 300 Digital

3.2-MEGAPIXEL DIGITAL CAMERAS

ike getting a trendy mod haircut at SuperCuts, today's digital cameras give you a lot more bang for your buck. The standard consumer-camera resolution these days is 3 megapixels, and the latest crop of point-and-shoots announced by almost every camera manufacturer falls mostly under the \$400 mark. The Olympus Stylus 300 Digital and Nikon Coolpix 3100 are two such cameras, and while they have similarities—petite bodies, 3.2 megapixels (2,048 by 1,536), 3x optical and 4x digital zoom, white balance and flash modes, movie mode, exposure compensation control, macro mode, self timer, and more-they also have plenty of differences, mainly in performance.

The Stylus 300 Digital stores pictures on a teeny xD-Picture Card (16MB included),

comes with a rechargeable lithium battery (with decent life) and charger, and features a durable all-weather body with minimal button controls. The other controls are housed in the Stylus's software interface. While this provides a cleaner exterior, we found the interface navigation somewhat clunky-you choose modes via a Ferris wheel-like display, while other camera settings and functions reside in the menu screen or activate via the buttons. We had a hard time remembering where each function was located.

The Coolpix 3100 uses CompactFlash Type 1 cards (16MB included), comes with a single-use battery (we grumble, but at least the included battery is a trooper, still showing signs of life after over 150 shots), and features a compact body that

feels good in the hand, thanks to the grip. Functions and settings are easy to accessthe Coolpix has button controls on the body and a dial on top that lets you change modes. The well-laid-out menus allow you to find and set controls quickly. However, the LCD screen displayed some granular animation, which became more apparent when we were viewing in the shade rather than under the sun.

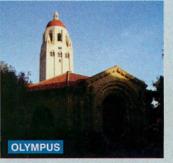
Both cameras are designed for those who don't want to fuss with settings to eke out the best images, and include a programmed mode for total autopilot snapping, as well as scene modes that provide optimal presets for different situations, like portraits, landscapes, and nighttime scenes.

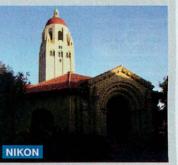
When we pitted the two cameras





MACRO MODE Both cameras handled macro mode situations well. However, when we set the white balances to Auto, the Olympus's sensor didn't always see white right.





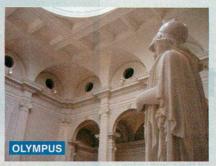
TRICKY EXPOSURE With both cameras set to their respective multipattern-segmented meters, the Olympus exposed the tower nicely but way underexposed the building. The Nikon slightly blew out the tower to give the building some exposure.

against each other, the differences became apparent—the Nikon buried the Olympus, which was disappointing given our past warm-and-fuzzy experiences with Olympus cameras. We snapped the same compositions with identical auto settings on each camera, and then snapped the same scenes again using each camera's optimal settings for the situation. We then reviewed the resulting images' exposure, color fidelity, focus, and cleanliness (absence of noise or digital artifacts). Here's how they rolled with the punches.

Under sunny skies, the Coolpix produced better tonal depth than the Stylus, which often produced images with too much contrast, exposing brightness correctly while underexposing shadows. Luckily, with an image editor you can fix the unevenness. In overcast lighting, both cameras produced nice images with even exposure and good tonal range. We liked the Stylus's coloring better, even though its color reproduction was more saturated than the Coolpix's (a taste issue). We didn't experience any major focusing problems, though most images were on the soft side due to the JPEG compression (no uncompressed TIFF or RAW settings in these types of cameras). Again, you can easily fix color problems and sharpness issues with an image editor.

Not so fixable is digital noise, and the Stylus is one rowdy rebel. All of the Stylus's indoor shots displayed some artifacts, while the Coolpix shots were generally clean. Part of this may be attributed to the Stylus's anemic flash, which couldn't expose a subject even if it wore a trench coat. Outdoor shots were noticeably cleaner. We were pleasantly surprised that the Coolpix didn't produce the usual purple halos in backlit scenes that we've seen in other Nikon models.

Though we wanted to like the Stylus 300 Digital (we bought its film predecessor years ago), its performance was subpar when compared with that of the Coolpix 3100, a more impressive—and cheaper—camera. -Kris Fong





WHITE BALANCE This scene has two light sources: a large skylight and tungsten lamps. Set on Auto white balance, the Olympus favored the skylight, turning the tungsten illumination orange, while the Nikon balanced the two sources to produce a real-life reproduction. When we set the Olympus's white balance to Tungsten and snapped again, the image came out bluish-green.





COLOR FIDELITY We went back and forth on this one. The Olympus image is more vibrantly appealing, while the Nikon image looks washed out. The truth is, neither was dead accurate—the Olympus saturated the color while the Nikon toned it down in this composition. Overall, we preferred the Olympus's color richness to the Nikon's dimness, but we didn't always get precise colors on either camera.





FLASH Hands down, when we asked for light, the Nikon shone (literally), while the Olympus failed to deliver. In low-light and fill-in situations, shedding light on our subjects with the Olympus's flash was futile. In this scene, it looks like the Olympus's flash didn't even fire (it did-we took this one three times to be sure).

Nikon Coolpix 3100

COMPANY: Nikon CONTACT: 800-645-6689, www.nikonusa.com **PRICE: \$349**

REQUIREMENTS: Power Mac, Mac OS 9.x or 10.1.2 or later, USB port

GOOD NEWS: Great exposure handling. Good color accuracy. Intuitive navigation. Clean images.

BAD NEWS: Grainy LCD. Ships with disposable batteries.

MacAddict RATED 00000 GREAT

Olympus Stylus 300 Digital

COMPANY: Olympus **CONTACT:** 888-553-4448, www.olympus.com **PRICE: \$399**

REQUIREMENTS: Power Mac. Mac OS 8.6-9.x or later, USB port

GOOD NEWS: Rich color with accuracy in most situations. Extreme portability. Comes with rechargeable battery. BAD NEWS: Weak flash. Clumsy menu navigation. Noisy images.





Final Cut Express 1.0.1

VIDEO-EDITING SOFTWARE

inal Cut Pro has become the tool of choice for many video editors—provided you could scrape up a cool grand (\$999) to make it your own. But now, Apple's taken some of Final Cut's best features and spun them off into Final Cut Express, for the low, low onetime price of \$299. Shucks, that's chicken feed as far as video editors go, and the kicker is that Express isn't just a crippled, sad shell of its big sibling. This Express is the real deal: a first-rate editor, with only a few compromises.

In fact, it's easy to confuse Express and its Pro bro, because they sure look like twins. For starters, they share exactly the same interface and workflow, which lets you take raw video, audio, and still pics and

A first-rate editor, with only a few compromises.

weave them together into polished movies destined for videotape, the Internet, CD-ROM, or DVD. Both versions share the same power-user editing tools (ripples, rolls, slips, and slides), the ability to create up to 99 tracks for each video and audio clip, the same text-titling tools, and the option to record voice narrations with your movies. As far as effects go, Express includes the same 60 customizable

transitions as the Pro version, almost all the same video filters, all the same audio filters (which help minimize noise, add echoes, and so on), and most of Pro's color-correction skills (which fix poorly exposed video and minimize the green, blue, and orange

color tints that stem from bad lighting).

Of course, Express didn't inherit all of Pro's fine genes, but many editors may not care. A key difference between the two is that Express converts any video you import into DV format, with DV's complimentary 5X compression. So you're out of luck if you want to work with uncompressed or HD video. (Note: DV is already the preferred format for many indie films, documentaries, corporate and wedding videos, and even some TV.)

Express's effects and compositing skills have some limits too. The program gives you more than 80 tweakable video filters to add blurs, change colors, apply mattes and color keys, and further futz imagery



Compositing images—including scaling, rotating, and repositioning them—is a click-and-drag affair in Final Cut Express.

in crazy ways. The catch is that you can't apply keyframes to a video or audio filter to change its settings over time within a single clip. For instance, once you set up a Wind blur, you can't increase or decrease the blur over a few seconds. What you can change are motion effects—scale, rotation, image position, crop values, and opacity—but Express handles keyframes weirdly (you can't see the keyframes when you set them). End result: Express can do some fancy effects and compositing, but if that's your main focus, you'll want more control.

Some other minor hitches: When capturing video, you have to capture clips one at a time, instead of in a batch while you grab a latte (though there is a Start/ Stop scene-detection trick, à la iMovie, that lets you capture a big chunk of video and quickly break it up into smaller clips). Also, Express has no media-consolidation feature for resaving a project with only the media your movie's final edit actually uses; manually dragging unused clips to the Trash worked for us.

But really, what do you expect for \$299? The high-end features that set Final Cut Pro above Express are lost on many editors—even on some pros. And if you're a video hobbyist who's ready to step up from iMovie, once you get your hands on this little app, you'll think you won the lottery.—Helmut Kobler



Express's Timeline is where you arrange your video and audio clips on multiple tracks, and set keyframes to fine-tune each clip's volume and opacity.



COMPANY: Apple Computer CONTACT: 800-692-7753, www.apple.com PRICE: \$299 REQUIREMENTS: 300MHz G3 or faster (500MHz G4 for real-time effects), Mac OS 10.2 or later, 256MB RAM GOOD NEWS: Tons of powerful editing and compositing features. Great price. Same interface as Final Cut Pro, so you can easily step up later. BAD NEWS: No media management to consolidate finished movies. No online help. PDF manual has some confusing mistakes.





The AirPort Extreme Base Station looks like the old Station and works like it too.

AirPort Extreme

WIRELESS NETWORK IN A BOX

The debate continues: speed or convenience? AirPort Extreme
Broadband and Modem Edition boasts faster speeds than old-style AirPort (54 Mbps vs. 11 Mbps), but only within an inconveniently short, 50-foot range (see "Extreme Wireless," p20)—not exactly the best of both worlds. That said, the Base Station's new ports, one for a USB printer

It's not exactly the best of both worlds.

and one for an optional external rangeextending antenna (see our extendAIR review on p51) are handy, and seamless backward compatibility with the 802.11b AirPort spec of old makes it very convenient.

Ease-of-use is still a non-issue—just plug the Base Station into an AC outlet and into your DSL or cable modem (or telephone jack for dial-up users). The default configuration spits out the Extreme 802.11g signal, as well as 802.11b for first-generation AirPort users (plug in an Ethernet hub to serve wired users); you can set the wireless signal for either 11g- or 11b-only compatibility. Evaluating AirPort Extreme in terms of raw speed and range requires a hefty dose of actual mileage may vary. Under ideal

conditions (with cell phones and other potential sources of interference turned off), we got up to 30 Mbps at point-blank range (1 foot) and an average speed of 20 to 25 Mbps within AirPort Extreme's limited (claimed 50-foot) range. AirPort Extreme's saving grace here is that an AirPort Extreme—equipped Mac negotiates the signals seamlessly—we took ours strolling with nary a hiccup until its steadily decreasing signal dropped off entirely about 140 feet (outside) from our Base.

Another AirPort default is password security, which you can turn off or crank up to 128-bit encryption. If that's not enough, you can even throttle back AirPort's Transmitter Power when you don't feel like sharing the bandwidth with the Joneses next door. More security comes in the form of AirPort's built-in firewall (with portmapping for Web-serving and such) and Access Control so you can regulate your kids' online activities. In true Apple style, it's all point-and-click easy.

We dig Extreme because it's cheaper and theoretically almost five times faster than regular AirPort. Even if 54 Mbps is still a pipe dream, brainless setup and 802.11b-compatibility spares AirPort Extreme our wrath.—Niko Coucouvanis

COMPANY: Apple

CONTACT: 800-795-1000 or 408-996-1010,

www.apple.com

PRICE: \$249 Base Station, \$99 AirPort Card (sold separately)

REQUIREMENTS: AirPort-equipped Mac, Mac OS 10.1.5 for Base Station configuration, Mac OS 10.2.3 for USB printing

GOOD NEWS: Supports old and new AirPort. Antennae port can extend range. **BAD NEWS:** 802.11g ain't all that (yet). Card not included.





iLife

MULTIMEDIA SUITE

We always suspected that Apple's little is proof enough: four apps (iTunes, iPhoto, iMovie, and iDVD) rolled into one consumerlevel multimedia powerhouse (no, we don't mean prosumer—this stuff is practically free). To mince Steve Jobs's words, iLife does for counterproductivity what Microsoft Office did for productivity (the Office oxymoron is Steve's, just go with it).

iDVD 3

iDVD 3 is arguably the only reason to buy iLife—it's the only one of the four apps that you can't download for free. But can you even use it? The company line says yes, provided that you use it on a genuine Apple-installed SuperDrive—but the Apple-installed part might not be necessary (see "Support, Shmupport," below).

iDVD is where iLife integration really comes together. You can pick an iTunes song or playlist for background music, browse or search your iPhoto library, and of course use chapter markers generated in iMovie (or Final Cut). The integration falls a bit short in that you can't manipulate or create new playlists or photo libraries from within iDVD.

The 24 new iDVD Themes feature everything from racy to classy, and

Support, Shmupport

Apple insists that iDVD only works on factory-installed SuperDrives, but we beg to differ. Anecdotal evidence suggests that Pioneer's AO5 drive might work if you situate everything just so when installing the drive in a Power Mac G4 (see "Supercharge Your Mac," April/03, p19) If you feel lucky, check out the drive-compatibility database at the Accelerate Your Mac site (http://forums.xlr8yourmac.com /drivedb), where tales of successful home SuperDrive installations abound. Just keep in mind that there are no guarantees; even if it works initially, future iDVD, Mac OS, or firmware updates could throw a monkey wrench into the whole setup.



With iLife, Apple boxed up the digital hub and put a price tag on it-a nice low one.

besides looking great, they're completely modifiable. You can tweak the position, font, size, and color of your titles and menus; swap background pictures and movies; make full-motion movie buttons; and set the audio soundtrack. iDVD 2's Themes are also available, and you can save your modifications as Favorites.

iMovie 3.0.1

If you heard that iMovie 3.0.1 is slow on iBooks (see "iMovie Madness," 47), you heard right. Welcome to the future. Even on a Dual 1.25GHz Power Mac, scene transitions and video effects take some time. Simple Radial, Fade, and Cross-Dissolve transitions take a few seconds apiece, but adding the Rain effect to a 7-minute clip took almost 2 hours on the mighty Power Mac. Shorter-run effects rendered much more quickly (on the dualie, that is—our iBook and even a 867MHz 12-inch PowerBook's G4 felt the strain of applying a trail of Fairy Dust). Don't worry, iMovie also has useful effects, such as

Brightness & Contrast and Adjust Color.

iMovie lets you work with one video track and two audio tracks. You can extract one audio track from a DV clip for basic sound-level editing. The other audio track is where you spice up the action with your iTunes music, a killer set of sound effects (the stereo jet fly-by is our favorite), and voice-over narration (don't use your Mac's built-in mic unless you want that low-budget, inaudible effect). And speaking of bad audio, make sure you edit the video clip and apply any transitions before extracting the audio, or you'll have to resync the audio and video later.

As cool as it is, iMovie can be infuriating. We regularly experienced 5-to-30-second delays when attempting to move the playhead, switch the app back to Clip view, or do anything much at all. Otherwise, iMovie does an excellent job of concealing the fact that it's still busily crunching through an effect—the only visible clue is a wee progress bar running across the clip in the timeline. iMovie really should

handle background processing more gracefully. Other randomly occurring problems include flashing the movie's opening clip after you apply an Effect or Transition, showing scaleddown or cropped previews in the main clip viewer, and minor

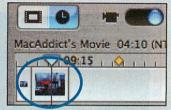


If you like the Dock's Poof, iDVD's will blow you away.

iMovie Madness

iMovie can be a bit, shall we say, temperamental. Here are a few of our time-honored tips for editing digital video-they'll probably solve your iMovie woes (heck, they can't make things any worse).

1. Defrag your hard drive. Better yet, get a second hard drive to use exclusively for iMovie projects and files, and defragment it (or simply reinitialize or erase it) after every project. Editing video is one of the harshest things you can do to a drive.



See that little red line in the timeline viewer? That's iMovie's idea of a progress bar.

- 2. Update. iLife is happiest in OS 10.2.4. And don't forget to load QuickTime 6.1.
- 3. Buy more RAM.
- 4. Step up to a prosumer video editor.

annoyances such as deleting the whole clip when we press the Delete key (in iMovie 2. that trimmed the clip).

iMovie does a pretty good job with titles. You can choose any of your Mac's active fonts, set the size and color to your liking, and pick from 34 effects (including Flying, Rolling, Scrolling, and Zooming). Some fonts, especially thin, elegant ones, don't look as good on DVD (and almost all fonts look crappy if you export your project as a QuickTime movie). Don't let iMovie's onboard preview discourage you, though—the fonts'll look much better on the final DVD.

Given its handy iTunes integration, way-cool sound effects, iDVD integration for burning, and most of all the outcomehome movies with slick transitions, titles, and effects (Ken Burns Effect panning and zooming segues, for crying out loud!), we'll tolerate iMovie's dodgy performance. But all the while we'll be saving our pennies for Final Cut Express (see our review on p44).

iPhoto 2

It won't put Adobe out of business any time soon, but iPhoto's new toolkit is exactly what Joe Megapixel needs. The new oneclick color correction is rudimentary, but its effects are noticeable and welcome. We were satisfied (but not thrilled) with the red-eye remover (see "Red-Eye-O-Rama," below). Though the retouch brush is nothing short of magic on easy targets like zits and moles, it's not exactly a tool for finessing (nor is it a brush-it's a crosshair). Add seemingly unlimited undos. and you'll be looking good in no time.

Sharing is what iPhoto's all about, and you've got plenty of options integrated right into the Organize pane, from which you can easily send photos to your printer, email program, or desktop background; present them as a slide show on a Mac or on your .Mac home page; order Kodak prints or a coffee-table photo book from Apple; or burn a DVD or CD-all with just a click or two. And yes, you can crop and resize photos-you can even force

compliance with popular aspect ratios. including the standard photo-print sizes (8 by 10, 5 by 7, and so forth) and 4 by 3 for DVD

Where integration falls short is in making custom iTunes playlists from within iPhoto or playing songs randomly from a playlist or library—you can't. And speaking of random, we want to know why iPhoto's slide shows don't handle random play as smartly as iTunes randomizes playlist playback—we saw too many repeats before some slides showed up at all. And our dream library would have subfolders (albumettes) within the photo albums. Regardless, for sharing and archiving digital photos, as well as fixing their most common flaws, iPhoto is superb.

iTunes 3.0.1

iTunes started the whole iApp craze back in 1999 after Apple obtained its original SoundJam incarnation from Casady & Greene, Rightfully so, then, iTunes is the



Don't tell the other iApps, but iTunes is still our favorite of the bunch.

most mature and polished of the iLife bunch. We'd venture to call it the best MP3-jukebox software there is-we'd be fools not to, considering its awesome visuals, iPod integration, smart playlists, built-in Internet Radio tuner...frankly, we don't have a bad thing to say about iTunes.

iLife is awesome if you get it free with a new Mac (doubly so considering the better performance you'll get on fast new hardware). And it's great if you have an Apple-installed SuperDrive (iDVD 3 is easily worth the \$49), but it's not worth buying if you can't use iDVD since all of the other pieces-iPhoto 2, iMovie 3, and iTunes 3-are free for the download. So we'll compromise and call it solid because it all works, and works together exceptionally well.-Niko Coucouvanis

Red-Eye-O-Rama

iPhoto's new red-eye corrector does a great job on all but the reddest red-eye-itis.





Red-eye doesn't stand a chance against iPhoto.

COMPANY: Apple CONTACT: 800-795-1000 or 408-996-1010, www.apple.com PRICE: \$49 or free with a new Mac **REQUIREMENTS: G3, Mac** OS 10.1.5, 256MB RAM, 250MB disk space (2GB disk space and SuperDrive required for iDVD)

GOOD NEWS: Slickly integrated, (mostly) mature consumer apps. Three of the four apps are free downloads.

BAD NEWS: iDVD still not supported on third-party burners. iMovie can be slow and schizophrenic. System requirements are understated.





Cinema 4D 8 XL

3D MODELING AND ANIMATION

s any 3D artist can tell you, there is no magic solution for creating great 3D models and animations. And no matter how much cash you lay out for one of today's leading software packages, it's not going to do the work for you. Keeping this in mind, the best kind of 3D software would have to make the learning process fun and include tons of great features to play with. It would also boast a highly organized interface that would let you explore all aspects of the software while still focusing your attention on the task at hand. Enter Maxon's Cinema 4D 8 XL, a seriously full-featured 3D software package that adds higher-end modeling, animation, visual effects, and

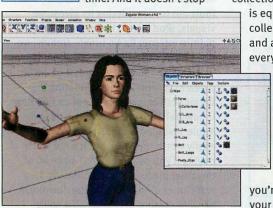
Cinema is a seriously full-featured package.

rendering tools to the already pro-caliber Cinema 4D app. And best of all, Cinema 4D's sophisticated and innovative interface makes learning this software a surprisingly enjoyable process.

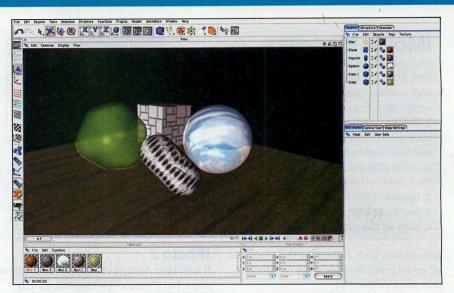
How? Cinema 4D blends into one highly flexible interface that shifts focus on



demand and consistently gives users exactly the right tools at the right time. And it doesn't stop



You can easily organize complex model structures with the Object Manager panel.



Cinema 4D makes applying professional texture and rendering effects such as transparencies, reflections, and bump mapping a snap.

there: Cinema 4D's modular architecture lets you further customize the interface by dragging and docking tool panels in different positions.

But what really helps you keep projects organized is the Object Manager panel. With this handy tool, you keep all your models, deformations, textures, and parent-child relationships together in an easily navigable, icon-based tree structure. One quick glance gives you an immediate overview of what is going on in the 3D scene. The Object Manager also lets you use drag-and-drop modifying features such as bend effects and bones directly on model icons without having to navigate through the 3D space of the main Viewport.

Of course, the greatest user interface in the world won't make up for a subpar collection of tools. Fortunately, Cinema 4D

is equipped with a better-than-average collection of modeling, texturing, and animation tools. It includes everything a serious 3D artist has

come to expect—HyperNURBS (Maxon's hyper version of the standard non-uniform rational b-spline modeling), advanced particle effects, metaballs, spline modeling, inverse kinematics, and, of course, detailed point and polygon editing. And when

you're done modeling and animating your scene, you've got Cinema 4D's proven Raytrace engine for high-end rendering, as well as Cartoon Mode for

Big-Buck Bundle

Cinema 4D 8 proper sells for only \$595 and has enough features to get you seriously hooked. Buying the XL bundle's modules piecemeal would add \$1,875 to that price:

MOCCA (Motion Capturing and Character Animation) For cartoons and non-photo-realistic projects (\$395). Advanced Renderer Enhances 4D's already good renderer with radiosity rendering, surface and volume caustics, highlights, glow, and enhanced depthof-field features (\$495).

Thinking Particles Makes particles and particle streams interact with each other and the environment (\$395).

PyroCluster Adds realistic volumetric effects like smoke and fire (\$295).

Net Render Splits the rendering work

across three computers (\$295).

cel rendering and multipass options for last-minute adjustments. For those with Web 3D on their mind, Cinema 4D even includes rendering and output options for Shockwave3D and Flash.

Cinema 4D offers way more than initially meets the eye, and with its open-door policy for adding modules such as the particle-physics and character-rigging modules included in the XL bundle, the fun of exploring more-advanced features never has to end.—Patrick Baggatta



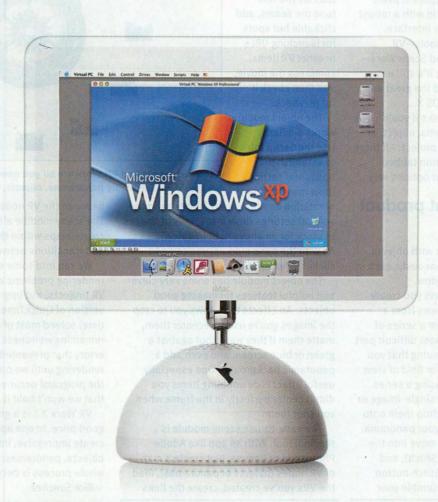
COMPANY: Maxon CONTACT: 877-226-4628, www.cinema4d.com PRICE: \$1,695 **REQUIREMENTS:** Power Mac, Mac OS 9 or later, 128MB RAM (512MB recommended)

GOOD NEWS: Tons of great features. Pro-level rendering. Awesome user interface.

BAD NEWS: No significant bad news—if the \$1,695 price tag doesn't knock you for a loop.



They say you have to run Windows. (No one said you had to do it on a PC.)





Work the way you want to with Virtual PC for Mac.

You love your Mac. So do we. That's why we're working so hard to keep one on your desk. Simply install Virtual PC™ 6 and you can run Windows applications, access PC networks, share files with PC-based colleagues and use PC-only Internet services. We've also added some very cool new features like the Dock Start Menu that lets you launch PC applications right from the Mac OS X Dock! For more information, please visit www.connectix.com/index_mac

Connectix Virtual PC uses genuine Windows® Operating Systems

© 2003 Connectix Corporation. Connectix, the Connectix logo and Connectix Virtual PC are trademarks of Connectix Corporation. All other trademarks are property of their respective holders.





VR Worx 2.1

QUICKTIME-VR AUTHORING SOFTWARE

The last time we sussed out the tools that make up VR Worx (Jul/99, p70), we found an easy-to-use trio with a robust feature set and a great user interface. Four years later, the same tools—VR ObjectWorx, PanoWorx, and SceneWorx—have merged into VR Worx; it's still easy to use and feature rich, and the great user interface is even better in OS X.

Upon launch, VR Worx asks if you'd like to create a new panorama, object, or scene, or open an existing project. All three project types share a common tabbed interface that presents your options very

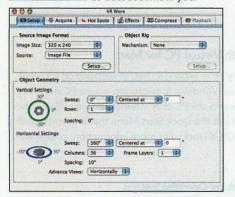
VR Worx is a great product at a good price.

sensibly, and you can work with objects, panos, and scenes simultaneously, each in its own self-contained window.

The panorama module lets you create 360-degree (horizontal) views from a single large-format image or a series of overlapping images. The most difficult part of using this module is ensuring that you have the right focal length or field of view for your images if you are using a series. You can acquire images by single-image or batch import, or drag and drop them onto a visual representation of your panorama.



Then you move into the next tab (Stitch), and click the Stitch button to autoassemble your



First, map out the object so you'll know what photo angles you need to shoot...

pano. Additional tabs let you fine-tune the seams, add clickable hot spots for launching URLs or other VR items, compress the movie, and then check it for playback.

The object module works similarly.
Use the Setup tab to establish the horizontal settings (how many degrees

of rotation and how many images) and the vertical settings (how many rows of images to stack for an above or below view).

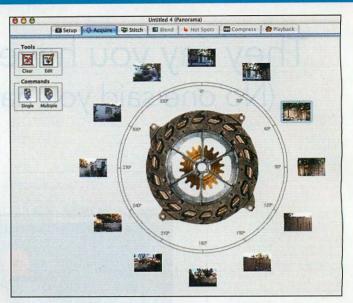
As with the pano module, you can add clickable hot spots.

The object module has some very clever and helpful features for making good objects. An Effects tab allows you to crop the images you're using, recenter them, matte them if they were shot against a green or blue screen, and even add a panoramic background. One especially useful effect is dewobbling items you didn't center perfectly in the frame when you shot them.

The easy-to-use scene module is the final tool. With an app like Adobe Photoshop or Canvas, just create a map of VR nodes (objects or panoramas), load the VRs you've created, create the links



...then crop, matte, or dewobble your VR objects before compressing the final QTVR.



A few snapshots and VR Worx are all you need to easily create navigable virtual-reality panoramas, objects, and scenes.

between the VR nodes, and you're done! The scene module also allows you to create maps within the app, as well as add transitions between nodes.

We ran into some error messages and rendering problems while exporting our VR projects, but upgrading to the latest version of QuickTime (6.1 as of press time) solved most of our problems. Any remaining weirdness (for example, -2022 errors that prevented a project from rendering until we quit and relaunched the program) occurred rarely enough so that we won't hold it against VR Worx.

VR Worx 2.1 is a great product at a good price. In one app you can easily create impressive, interactive VR objects, panoramas, and scenes—and the whole process is deceptively simple.

—Rick Sanchez

VR Output

VR Worx outputs three basic types of VR documents: objects, panoramas, and scenes. A VR object is a 360-degree view of an item, usually built from a series of pictures taken of the object as it rotates on a turntable. A VR panorama is an up-to-360-degree view of a room or location, generally created from a series of pictures taken by a camera as it rotates on a tripod. A VR scene is a collection of VR panoramas or objects that serves as a user-navigable map.



COMPANY: VR Toolbox CONTACT: 877-878-6657 or 412-767-4947, www.vrtoolbox.com PRICE: \$299, \$39 (upgrade from VR Worx 2.0) REQUIREMENTS: Power Mac, Mac OS 10.1 or later, QuickTime **GOOD NEWS:** All-in-one virtual-reality suite. Very easy to use. Great user interface. **BAD NEWS:** A fair number of QuickTime-related errors.



SpaceShuttle A/V

AV CONTROLLER

ontour's popular AV multimedia controller, ShuttlePro (Reviews, May/01, p61), now has a baby sibling, and its name is SpaceShuttle A/V.

Functionally, the consumer-priced SpaceShuttle A/V feels just as professional as the ShuttlePro; its smooth, solid jog

The SpaceShuttle A/V lets you scrub through footage quickly and precisely.

and shuttle controls let you scrub through audio and video footage quickly and precisely. It has five programmable buttons (that's eight less than the Pro); as with most programmable input devices, you can use these to dial in and save your own

COMPANY: Contour A/V Solutions CONTACT: 866-894-1127, www.contouravs.com **PRICE: \$49.99**

application-specific settings.

In use, the SpaceShuttle A/V worked flawlessly in a variety of applications, including Apple's iMovie and Final Cut Pro and Emagic's Logic Audio Platinum, If the SpaceShuttle A/V has a flaw, it's the circular design-unlike the Pro version, this device gives

you no place to rest the heel of your hand. Doing so might not be ergonomically correct, but it keeps the lightweight device firmly planted on the work surface. The SpaceShuttle A/V does have grip pads on its underside; however, depending on



Shuttling through audio and video clips is so much better than mousing or arrow-keying through them.

what surface you place it on, it may shift when you're using the shuttle ring. This is a minor issue, though, and will probably only present itself in rare circumstances. Otherwise, the SpaceShuttle A/V rocks. -Andrew Tokuda

GOOD NEWS: Works just as smoothly as

BAD NEWS: Awkward to use on some

the Pro version.

desktop surfaces.

Dr. Bott's antennae

make Apple's **AirPort Extreme** more extreme. MacAddict RATED 00000 GREAT



REQUIREMENTS: USB-equipped Mac, Mac OS 10.1 or later



ife's tough when you're short: It's true on the basketball court, and it's true on a wireless network. We appreciate the evolutionary step taken by Apple's new AirPort Extreme (see our review on p45),

extendAIR is a leap forward in wireless convenience.

but Dr. Bott's performance-enhancing supplement, extendAIR, is an even greater leap forward in wireless convenience.

Assuming a typical home setup (750-Kbps broadband Internet connection, occasional LAN games, and no extreme file sharing) even old-style AirPort's 11 Mbps is plenty fast (750 Kbps = .75 Mbps). AirPort has always needed a greater range because more range equals more convenience. extendAIR is currently the only way to

boost AirPort's range. If you're looking for a speed boost, keep looking; extendAIR does stretch AirPort Extreme's faster signal, but proportionally, most of the added range is governed by the old AirPort's speed limit.

There are two extendAIR models: Direct, which amplifies the signal out across a 70-degree arc, and Omni, which boosts the signal omnidirectionally. Both models have a six-foot cord and screw-holes on the base for wall mounting, and both are designed to sit happily on a desk or table where you can reposition them at will. The Direct version, being directional, incorporates a balljointed neck so you can swivel the business end every which way to aim the signal.

Like most of us, extendAIR doesn't meet its potential-the claimed optimal performance is 500 feet (Direct) and 250 feet (Omni)-but both models extended

REQUIREMENTS: AirPort



our AirPort range significantly. The Direct model more than doubled our range, and Omni increased our range by between fifteen and fifty percent-totaling about 400 feet and 150 to 200 feet, respectively. Like AirPort itself, extendAIR's performance

line-of-sight clarity. Bottom line: extendAIR gets us that much farther from the desk (and closer to that shady tree), and that's what it's all about.-Niko Coucouvanis

depends heavily on environment and

COMPANY: Dr. Bott CONTACT: 503-582-9944 or 877-611-2688, www.drhott.com

Extreme Base Station Broadband & Modem Edition PRICE: \$149.95 (Direct), \$99.95 (Omni)

GOOD NEWS: Makes AirPort Extreme more extreme. BAD NEWS: Doesn't make it much more extreme.



Storm 2

SOFTWARE MUSIC STUDIO

Now that music-production software is finally migrating to Mac OS X, the question isn't "Which one works on my OS?" The question is, "Which one best serves my needs?" If you need a beginner-friendly, modularly expandable rig that's VST compatible and won't make a starving musician out of you, Storm could be the answer.

Storm comes preloaded with five different synths, five drum machines, two sampling modules, ten effects, a simple

Have big fun and get quick results making electronic music.

sequencer, and a funky (though not very realistic) vinyl-scratching emulator. Why so many different synths and drum machines? Choice. Instead of fewer module types with greater sonic flexibility, Storm lets you plug in different synths and drum machines that specialize in certain sounds. For instance, the Arsenic module is a monophonic synth with a resonant filter for dialing up squelchy acid lines; the Bass 52 module specializes in bass lines; while the Equinoxe and Orpheus synths are polyphonic, meaning you can play more than one note at a time to throw down chords.

Speaking of chords, the Shadow synth generates chord sequences and has a



cool x-y controller for additional performance mutation. An additional module called Kepler



Load up Storm's Scratch module and let the virtual vinyl sing.



Storm lets you mix and match instrument and effect modules to create your dream audio setup.

doesn't make any sound, but acts as a keychange modulator. You can have it change the key twice every measure for up to a total of eight key-change steps.

The drum machines operate pretty much the same as the other modules. Each has eight sampled sounds with individual pitch and decay settings, 64 patterns, and the usual old-school 16-step sequencer for programming. Where they differ is in the sounds they offer. Hork (we're not making these names up) has acoustic drum sounds, while Meteor drops the beats as electronic percussion. Tsunami is unique in that it offers a full-on drum synth with four oscillators and noise generators. We used it to create our own electronic kit; it's great for programming classic beatbox

sounds. The drag with the sample-based kits is that you can't load other samples into them. This makes for additional processor load if you want to, say, combine an electro kick with an acoustic snare, because you have to run two modules to pull it off instead of

just loading the sounds you want into a single kit.

Unlike many software so-called samplers, Storm actually lets you record audio and tweak it in very cool ways. EZTrack is a nice basic digital-audio recorder and editor that lets you cut up your recorded audio and rearrange it to create new breaks, which you can then drag over to H30plus. H30plus is a sweet four-track digital-audio sequencer module that can handle everything from individual hits to complete phrases and loops. You can even time-stretch loops to match a set tempo, or pitch-transpose them to match a certain key. You can base the pitch transposition on the Kepler module's ouput, taking a lot of work out of matching up the loop's key with the synths'-technically speaking, it's hella bitchin'. Plus it makes Storm's simultaneous limit of four instrument modules and three effects less restrictive.

Arturia's Web site hosts an online community for Storm users where you can get additional free modules, lots of help if you need it, and a place to share your creations with other Storm jocks. So who would want Storm? Anyone who wants to have big fun and get quick results making electronic music—and who doesn't?

-Kent Carmical



COMPANY: Arturia CONTACT: www.arturia.com PRICE: \$149 REQUIREMENTS: 400MHz G3, 128MB RAM, Mac OS 9.x or 10.1.4 or later (500MHz G3, 192MB RAM for OS X) GOOD NEWS: Mac OS X support. VST capabilities.
Supereasy to use. Nice price.
BAD NEWS: Hoovers up processing power. No redo function.





FontLab

FONT EDITOR

vpe designers and font geeks, your renaissance is here. No more dealing with six-year-old programs (not to mention booting into Classic) just to forge a font. FontLab 4.5.1 is here, and it was worth the wait. To be perfectly honest, we were ready to wholeheartedly embrace FontLab even if it sucked a little, but happily, it sucks not a bit. Aside from the lack of a printed manual (which would have been handy. given how much we had to refer to the PDF), FontLab performed admirably and with clarity throughout our fledgling type-design process.

You have three main windows to keep track of: Font, Glyph, and Metrics, The Font window represents an overview of the active typeface, and allows quick access to specific glyphs. The Glyph window is where all you would-be Goudys and Spiekermanns compose, tweak, and repair specific letterforms. The Metrics window shows your letterforms in context,

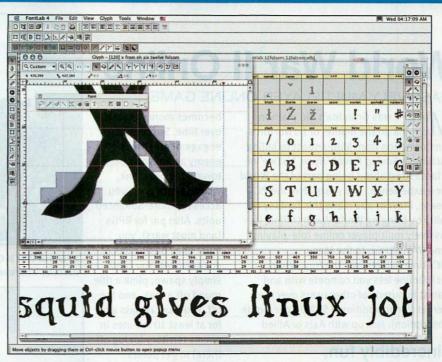
Font geeks, your renaissance is here.

and allows you to fine-tune your spacing for both individual glyphs and custom kerning pairs. In addition to the windows, there are innumerable toolbars and menus for hinting, customizing, font generation, and so forth. It is a lot to take in but seems very sensible after a little while.

FontLab is lightweight and responsive. This version is no afterthought; the time spent developing it for Mac OS X shows. Instead of making us use a proprietary and/ or platform-specific scripting language for FontLab's script-driven, automation needs, the app uses the Python scripting language behind the scenes to record your scripts. But don't fret-you still edit and export



scripts through FontLab's interface, so it's easy to produce a script without ever looking at any actual



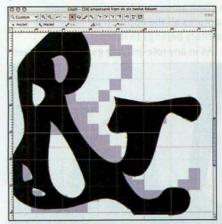
You kids have it so easy these days. In the old country we had to cut our type by hand, and they didn't come in all these fancy sizes, neither.

Python code (although as with anything, it's a good idea to peruse the instructions). One consequence of using an open-source project like Python is that while help is often just a Google-search away, using it can be an exercise in patience. FontLab suggests using none but version 2.2.1 of Python, which is available as a free 13MB download (check out www.fontlab.com /html/python.html for the latest download link and instructions). We had to do a little convincing to get Python installed and working properly, but it was hardly rocket science. FontLab includes a few scripts, and you can download forthcoming ones from a section on the FontLab Web site, but the selection was a little sparse as of this writing. We should mention that FontLab works perfectly well without Python, so you might not miss it.

At 716 pages, the manual is a bit hefty to print out and thumb through (at present FontLab is only available via download from FontLab's Web site, where you can also order a printed manual for \$39.95), but the text is well written and comprehensive. In addition to program-specific features, it covers general digital typographic formats, providing much-needed supplementary information.

Getting used to FontLab's interface

was pretty daunting, mostly because it's different from most other drawing or painting applications. After taming its toolbars and learning from our mistakes, we were able to generate a typeface in about a day from start to finish-finished meaning barely usable, of course. Even with a stellar tool like FontLab, it can take type designers months to make a font suitable for commercial use. But if you make a living from your types, you already knew that-and you've probably already got FontLab.-Paul Yoon



If you know a pangram from an ampersand, FontLab is right up your alley...er, galley...er, gutter.

COMPANY: Fontl ah CONTACT: 877-366-8522, www.fontlab.com PRICE: \$549 \$199 (upgrade from FontLam 3.x or Fontographer)

REQUIREMENTS: Power Mac, 32MB RAM (64MB RAM recommended for opening larger fonts), Mac OS 9.1 or 10.1 or later GOOD NEWS: Polished and sensible app

BAD NEWS: Intimidating and overwhelming app. Fosters (or worsens existing) obsessive-compulsive disorder.





World War II Online

MASSIVELY MULTIPLAYER ONLINE GAME

aybe it was Grandpa's old platoon photos on the mantel or Ed Norton's transformation from Milquetoast to killing machine in Saving Private Ryan, but we've all fantasized about being part of the World War II experience. Two years after the PC release, Playnet has made this fantasy a reality by bringing World War II Online, its massively multiplayer online role-playing game (MMORPG), to the Mac.

It's time to jump into the fray. World War II Online lets you compete with and against hundreds of other users over the Internet (for an additional \$12.99 per month subscription). Join up with Axis or Allied

An incredibly fun, immersive title.

forces, and you're free to make trouble on an enormous, highly-detailed map of Europe.

In addition to standard infantry units, World War II Online offers a wide selection of vehicles, each with its own traits: Panzers, Spitfires, boats, bombers—they're all there. Log in, select an infantry unit or vehicle, and you're good to go.

The key to World War II Online lies within the towns, airports, and military bases. In what's essentially an extended match of capture the flag, teams must seize various capture points by holding a location for a given amount of time. Once a team captures all the appropriate flags, that territory belongs to it.

As in any role-playing game, your player



Who says RPGs are boring? Not us, when we're dogfighting at 20,000 feet.

becomes more capable over time. Successful engagements with the enemy award you points toward the next rank, which in turn gives you access to more-advanced units. Also par for RPGs (and most wars), you must obey basic rules of engagement: You can't simply spawn, plink a rifle round off a tank, and log off. You must remain alive for at least 10 minutes in enemy territory (or log off there) to get points.

Playnet worked to create an immersive environment, and it shows. Second-to-none sound features create an adrenaline-pumping world in which the hiss of nearby shots, swoop of strafing fighters, and boom of artillery make you quake in your boots. Enhancements like hills around towns and

bases provide nice strategic variables in capturing and using optimal terrain.

As with any MMORPG, quality gameplay depends on the server. While lag is generally minimal, there are times when it rears its ugly head. Infantry units will see the worst of this when the frame rate drops and the action slows to a crawl. The graphics engine could also stand improvement: The landscape alternates between exceptional and blocky while you're in flight mode, as the game fills in missing patches of approaching land with generic white squares.

We were surprised to discover that you almost need a joystick to operate the vehicles correctly. Mapping the keyboard keys works in a pinch but doesn't provide anywhere near the accuracy we got with a 'stick. Granted, it never hurts to have a



In World War II Online, your platoon mates are your best friends, wherever they may be in the world.



Caution: If you go one-on-one with a tank, you'll probably end up dead and have to reenlist as a new player.

joystick around, but if you don't own one already, the additional \$35 price tag may sting a bit.

This game has an undeniable sense of fun, and it only gets better as you progress in skill and as your player matures. The first time you win a dogfight, snipe an enemy unit from your perch in a tree, or sneak through high grass for 15 minutes to take out a Panzer tank with hand grenades, you will find yourself completely absorbed in the moment.

Even though a few stability, USB-connection, and graphical issues still need ironing out, World War II Online is an incredibly fun, immersive title. If you want an immersive world of action and strategic teamwork with (and against) potentially limitless opposition, this is your game.

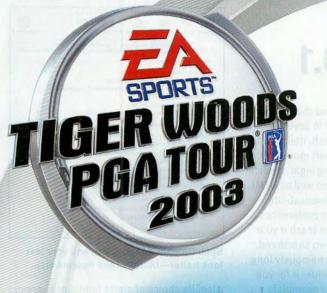
-Chris Barylick

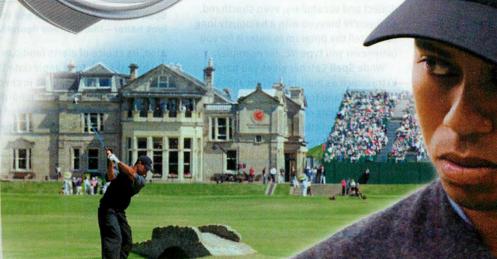


COMPANY: Playnet CONTACT: 514-844-3040, www.playnet.com PRICE: \$39.99, \$12.99 monthly subscription fee for online play REQUIREMENTS: 800MHz G4, Mac OS 10.1 or later, 64MB video card, 1GB disk space GOOD NEWS: Great strategic elements. Immersive environments. Team-based gameplay.

BAD NEWS: Somewhat clunky first-person movement. Graphics engine needs work for some vehicle modes.







BE HIM OR BEAT HIM













www.aspyr.com









© 2002 Electronic Arts Inc. Electronic Arts Inc. Electronic Arts in Electronic Arts in Electronic Arts in Electronic Arts Inc. Electron

Spell Catcher X 10.0.1

SPELLING CHECKER

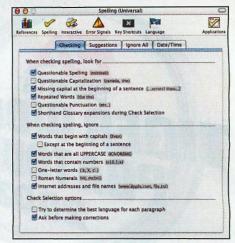
Stand-alone spelling checkers are a tough sell these days, for the simple reason that most modern apps already have the service built in. Email programs such as Apple Mail and Microsoft Entourage, any word processor (Apple's humble TextEdit offers check-as-you-type spelling advice), and heck, even graphics apps like Photoshop and InDesign can mind your Ps and Qs for you,

Spell Catcher X runs as a stand-alone app that you can activate at will via an application's File > Services menu or by selecting the Spell Catcher keyboard layout from the Mac's Input menu. Once it's running, Spell Catcher is available to any app, offering interactive checking, pop-up or on-demand spelling suggestions, text-formatting tools, and reference lookup

for Webster's dictionary and thesaurus entries. And it all happens in several languages (including English, Italian, and Swedish, and you can import more), with additional subsets covering legal, medical, and science terminology, as well as HTML.

That's all good, but customizability is better; Spell Catcher has preferences out the wazoo, and you can teach it your dialect and vocabulary, even shorthand, so if you're blessed with a heinously long name, tell the program to enter it for you (whenever you type NC, for example).

While Spell Catcher gives you handy extras such as built-in reference lookup, shorthand, and formatting options, for no-frills spelling checks on the fly, Spell Catcher gets a little sluggish with big words it encounters for the first time.



Spell Catcher X makes you and your text look better—literally (and figuratively).

Also, its choice of alerts (audio or a screen flash) makes us truly appreciate the simple underlining of built-in checkers.
Regardless, if you need a stand-alone spelling checker or spend a lot of time chatting in online forums, get Spell Catcher.—Niko Coucouvanis



COMPANY: Casady & Greene CONTACT: 800-359-4920, www.casadyg.com PRICE: \$39.95, upgrades from \$19.95 REQUIREMENTS: Mac OS 10.2 or later GOOD NEWS: Customizable interactivity. Includes dictionary and thesaurus. Learns vocabulary. Useful text-formatting tools. BAD NEWS: Not as smoothly integrated as built-in checkers. Occasionally clunky interactive spelling.

MacAddict RATED
GREAT

Spamfire Pro 1.3.2

ANTISPAM UTILITY

We've never claimed to be the purestminded people in the world, but even we've been starting to feel uncomfortable with the onslaught of emails featuring big, graphic pictures of big, naked body parts

It's made our lives a lot less pornographic.

staring back at us from our Entourage email window. So we were more than excited to see if Spamfire could sort through the spam Entourage couldn't.

Spamfire runs as a separate application that downloads all of your email (from POP3, IMAP, Hotmail, and Mac.com



accounts), filters the messages, then moves the good ones into your in-box. You pick the level of filtering (merciless, vigilant, or cautious)—we chose the recommended vigilant level.

In three weeks of use, Spamfire only let about five junk emails through to our in-box. Unfortunately, it's also good at filtering press releases, a group message from a friend trying to make brunch plans, and emails from your boss.

Spamfire is just overzealous enough so that we still check our spam box at least once a day to rescue any messages we don't want to lose. The filtering gets better as you tell the program which senders and domain names are kosher. Plus, the program automatically downloads new filters every day to keep up with the



Spamfire's main window is where you'll need to check for any good mail that spilleth over.

latest nefarious spam-delivery ploys.

So ask yourself: "Would I rather spend 20 minutes a day deleting spam from my in-box, or 3 minutes a day rescuing good spam from Spamfire?" Well, we're still using Spamfire, and it's definitely made our lives a little easier and a lot less pornographic.—Cathy Lu



COMPANY: Matterform Media CONTACT: 505-747-1220, www.matterform.com PRICE: \$39 (CD), \$29 (download) REQUIREMENTS: Mac OS 9.1 or 10.1 or later; 8MB RAM (128MB in OS X); any POP3, IMAP, or Hotmail account; Internet connection

GOOD NEWS: Your spam-free life starts today. BAD NEWS: Spam filters catch good emails too. Runs as a separate app and doesn't integrate with email client as well as we'd like.





NASCAR Racing 2002 Season

BACING GAME

et's see. Straightaway. Full speed. Brake. Turn left. Straightaway. Full speed. Brake. Turn left. Hmm, pretty repetitive. This can't be exciting, can it?

You better believe it can. When you're strapped into a 750-horsepower stock car, listening to the roar of engines, feeling the vibrations, and swapping paint with other souped-up monsters at 190 mph, it can get downright nerve-shattering.

NASCAR Racing 2002 Season puts you in an official Ford, Dodge, Chevy, or Pontiac and drops you in a swirl of dust, oil, and heavy-duty noise on one of 24 circuit tracks with Jeff Burton, Bobby Labonte, Dale Earnhardt Jr., and some 40 other NASCAR driving legends—or with up to 42

human opponents online.

Papyrus, the original developer (and king of the NASCAR sims since 1994) raises the realism bar once again. The guttural, growling engine sounds and gorgeous graphics make this game pretty on the surface; in action, the vehicles respond to driving controls quickly and smoothly, and if you hit something, you take believable damage.

Newcomers to racing needn't be intimidated. This one provides training videos, driving lessons, and track-tour secrets narrated by three-time NASCAR champ Darrell Waltrip to bring you up to speed.



NASCAR Racing 2002 Season is so realistic that you can almost smell the rubber burn.

But the big surprise here is that Mac gamers finally get a crack at force feedback. Along with Feral's F1 Championship Season 2000 (see Reviews, Apr/02, p60), this game is one of the first to take advantage of Apple's new force-feedback support. You'll need an enabled controller (see "MOMO Racing Wheel," below) to experience the effects; force feedback or not, you'll want a USB steering wheel to get the real NASCAR experience. It's a total gas .- John Lee

COMPANY: Aspyr CONTACT: 512-708-8100, www.aspyr.com **PRICE:** \$39.99

REQUIREMENTS: 733MHz G4, Mac OS X, 256MB RAM, ATI Radeon or nVidia GeForce2 or faster graphics card

GOOD NEWS: Colorful, rip-roaring, realistic racing simulator. Supports force-feedback controllers. BAD NEWS: Force-feedback wheel not included. Makes you want to drive fast and take





Momo Racing Wheel

USB STEERING WHEEL

Mant realism in your racing sims? Slide behind Logitech's new Momo Racing Wheel and start your engine. This is a low-cost version of last year's \$200 steering wheel for PCs, replacing colorful racing stripes, real leather, and metal parts with pure black, rubber, and plastic,

Your driving abilities will improve instantly.

but the wheel works fine and comes in \$100 cheaper, so it's easy to overlook the missing elements.

And it beats the heck out of driving with your keyboard's directional arrows. You get a sequential stick shift, two paddle shifters, and a set of durable gas and brake pedals. Add six programmable buttons, a

comfortable grip, and a full 240 degrees of rotation, and vou've got a rock-solid controller. What's more, if you're into flight sims, the gas and brake pedals can act as rudder controls.

Even better, with select games this plug-and-play controller will give you force feedback. That's true cause for celebration. OS X finally

has built-in support for force feedback, so game developers can add tactile input. for that extra dose of realism. A couple of game companies, including Aspyr and Feral, have quickly incorporated it. Try NASCAR 2002 (see above) and F1 Championship 2000 (see Reviews, Apr/03, p60). Now you can experience virtual



If you suck at driving games, we bet you're not using this wheel.

vibrations between road and tire; you'll feel bumps, jolts, and every subtle difference in terrain, whether you're driving on asphalt, cobblestones, or sand.

Your driving abilities will improve instantly. If you've ever complained about those directional arrows, you're going to love this wheel.-John Lee

COMPANY: Logitech CONTACT: 888-863-8312, www.logitech.com PRICE: \$99.95

REQUIREMENTS: USB-equipped Mac, Mac OS 10.2.3

GOOD NEWS: Superb handling with 240 degrees of rotation. Feel the warp, woof, and wobble of every type of terrain.

BAD NEWS: Pretty expensive for a game controller.







The Sims Unleashed

SIMS EXPANSION PACK

You might have noticed that we're cat and dog people around here (if you haven't, check out Nov/02, p27, and Dec/02, p44). That said, in no way would we let our love of furry animals influence us when we say that Unleashed is the best

The best Sims expansion pack yet.

Sims expansion pack yet (but those lil' Sim doggies and kitties *are* very cute!).

The first thing you notice when you pop open Unleashed is that your neighborhood has become incorporated into a bigger town with lots of other homes (including a number of premade ones you can move into), as well as an Old Town district featuring parks, cafes, a farmer's market,

pet stores, and, of course, the pet adoption center.

Hit up the adoption center when you're ready to take home a cat or dog (you can even choose its breed and gender), but be forewarned: In order to adopt, you must call a cab and choose to explore Old Town. If instead you invite someone to Old Town, you aren't allowed to adopt because technically you're on a "date." We went pet-less for several days before figuring out that weird little technicality.

Once you have your pet, you provide for it, train it, clean up after it, and teach it tricks. You can't take on the role of the pet, but it does show up in the mood bar, and you can interact with it on many levels, from hugging it to scolding it. A dog truly is a Sim's best friend, as it comes to greet



You don't have to train your Sim dog to pee outside; unlike real life, Sim dog pee doesn't smell.

you every day when you come home from work. It's pretty heartwarming—at least, as heartwarming as a computer game can get.—*Cathy Lu*



COMPANY: Aspyr CONTACT: 888-212-7797 or 512-708-8100, www.aspyr.com PRICE: \$29.95 REQUIREMENTS: 233MHz G3 or faster (450MHz recommended), Mac OS 9.2.2 or later, 192MB RAM (320MB recommended for OS X), full version of The Sims

GOOD NEWS: Virtual cats and dogs!
Performance has improved.
BAD NEWS: Older systems still choke on the game.



FontAgent Pro 1.1.2

FONT-MANAGEMENT AND -REPAIR UTILITY

ac OS X's multiple font folders can be a royal pain. There's a Fonts folder here and a Fonts folder there, and soon it seems like they're everywhere.

How do you sort out this mess? Insider Software's FontAgent Pro can help you keep your fonts healthy and accounted for, however large and disparate your collection. FontAgent has always been good at finding and repairing corrupted fonts; the Pro version adds extensive fontmanagement capabilities, with the unique ability to create multiple font libraries.

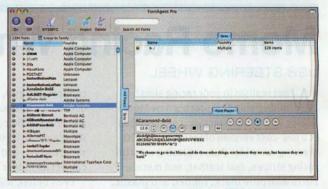
When you add fonts to FontAgent Pro, you can either move or copy them into the FontAgent Pro Fonts folder. From there,



the program makes a backup folder of all the fonts you import. FontAgent autoactivates designated fonts in many applications, with the notable exception of any Adobe apps (you can always manually switch fonts on and off). The package includes autoactivation plug-ins for QuarkXPress and Adobe InDesign, and

plug-ins for Adobe Illustrator and Photoshop should be out by the time you read this.

While great at repairing and managing fonts, FontAgent Pro suffers from some irritating first-release bugs. With a 1,400-font library, the app launched somewhat slowly on our dual 1.25GHz Power Mac G4, and the QuarkXPress autoactivation plug-in acted flaky—we had to refresh the screen before newly recognized fonts activated



FontAgent Pro's interface will be familiar to ATM Deluxe or Suitcase users.

(a QuarkXPress issue, according to Insider's tech support). Also, FontAgent tends to forget basic settings (such as the size of the font-group window) between launches. These bugs are minor, and Insider will no doubt fix them before long.

Quirks aside, FontAgent Pro is off to a promising start. Use it, and your font worries will become a thing of the past.

—Gene Steinberg



COMPANY: Insider Software CONTACT: www.insidersoftware.com PRICE: \$89.95 (download), \$99.95 (boxed), \$49.95 (upgrade) **REQUIREMENTS:** G3, Mac OS 10.2 or later

GOOD NEWS: Easy font management. Supports both Classic and OS X fonts. BAD NEWS: First-version bugs. Launches slowly.



e admit it—we are product snobs, and we never ever in a bazillion leap years thought we'd ever get excited about a hub. Well, slap us silly, because the UFO (short for USB FireWire Organizer) is the coolest hub we've seen this side of Jupiter.

Made specifically for the flat-panel iMac,

The coolest hub we've seen this side of Jupiter.

this round, white disc blends seamlessly with your machine, sitting underneath the iMac's igloo-shaped base. You might not even notice it at first, if not for the PowerMate-esque blue light glowing from the bottom (see Reviews, Sep/02, p55). If you're as over the blue-light fad as we are over Madonna, you can turn this off.

USB and two FireWire ports, the UFO features two sliding panels that line up underneath each end of the iMac's optical drive. Speaking of the CD-DVD drive, the UFO gives the iMac enough height so that when you open the tray, it no longer bangs into your keyboard. Lefties and righties alike will appreciate that each sliding panel hides two USB ports and one FireWire port.

A self-powered hub with four

This unearthly hub provides more proof that we're not alone.

The UFO offers one of the best cordmanagement systems we've seen. You can string your keyboard cord through the front of the hub's hollow base and out the back, plug it into one of the iMac's built-in USB ports, and push the excess cable back into the UFO. You can do the same with the Pro

speakers, just string them out the side. Two attached and extremely short cables connect the hub to your iMac's USB and FireWire ports.

Finally, your iMac and all its surrounding doohickeys can look almost like the beautiful, cordless (and let's face it, unrealistic) computer setups in the Pottery Barn catalog.-Cathy Lu

COMPANY: XtremeMac CONTACT: 866-392-9800 www.xtrememac.com **PRICE:** \$129.95

REQUIREMENTS: Flat-panel iMac G4, Mac OS 9.2.1 or later

GOOD NEWS: Way-cool design integrates perfectly with your iMac. Has both FireWire and USB ports BAD NEWS: If we were to be nitpicky, we'd say it could be

cheaper. If we were to be petty, we'd say the blue light could pulse.

MacAddict RATED 00000 GREAT



Freestyle Speedball

NOTEBOOK RISER

I hen Postworx pitched its Freestyle Speedball—a pair of lowfriction, hemispherical coasters designed to make laptop computers slide



Speedball makes your mobile Mac more mobile.

more easily across a desk or tabletop—we had to laugh. But then we tried sharing our iBooked vacation photos with a couple of friends at the kitchen table; the iBook's grippy feet sure are grippy! Once we attached the two-piece Speedball (one coaster at each rear corner), the iBook skated across the table like a manlier Scott Hamilton. The pseudo-Velcro backing means you can remove and reattach the feet at will, though with some difficulty. Another bonus: The Speedball also creates some air space around the Mac, which is pretty cool (literally).-Niko Coucouvanis

COMPANY: PostWorx International CONTACT: www.postworx.com **PRICE: \$13.95**

REQUIREMENTS: Notebook computer; any flat, hard surface

GOOD NEWS: Tabletop mobility. Makes 'Books look and run cooler.

BAD NEWS: Attaching pseudo Velcro requires a heavy hand.



StudioMouse Wireless

WIRELESS MOUSE

I hen it unwired the beautiful StudioMouse (see Reviews, 10/02, p54), Kensington made a good thing better-for the most part. That dangblasted scroll sensor, a mini-trackpad qua scroll wheel, is as unresponsive and annoying as ever.

Otherwise, this is our dream mouse: Kensington understands wireless and has

GOOD NEWS: Slick design. Excellent software.



We love almost everything about this mouse.

the sense to roll both the signal transmitter and the battery charger into one stylish cradle. Rechargeable batteries are included, but ours arrived DOA; thankfully non-recharging alkaline (AAA) cells work just as well, and once we slapped in a couple, this mouse's cool look, smooth and accurate tracking, and righteous MouseWorks software had us purring.-Niko Coucouvanis

COMPANY: Kensington CONTACT: 800-235-6708, www.kensington.com

BAD NEWS: Scroll sensor sucks.

PRICE: \$89.99

REQUIREMENTS: USB-equipped Mac, Mac OS 8.1 or later





THE BEST OF THE BEST FROM RECENT REVIEWS



NEW THIS MONTH:



When MacAddict editor Narasu Rebbapragad reviewed Apple's Keynote, she noted that "We never had so much fun making a presentation." She's right-but there's more: Keynote is not only a blast to use, it also creates presentations that put its competition to shame.



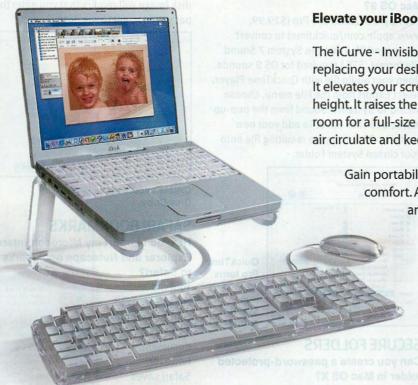
pson Stylus

Okay, so Epson's killer seven-color printer isn't actually new to the Hot List this month. (It first appeared in our Oct/02 issue.) What is new is that after frustrating months of unavailability, Epson is now shipping enough to make them easy to find. Finally.

	AUDIO			
	MOTU Digital Performer 3	\$795.00	Feb/02, p58	Pro-audio app has a great array of features.
	PropellerHead Software Reason 2	\$399.00	Mar/03, p50	The best software-synth bargain available today.
	Roxio Toast with Jam 5	\$189.95	Sep/02, p49	Burn CDs, MP3 CDs, DVDs, and VCDs, and edit audio.
	GAMES			
	Ambrosia Escape Velocity: Nova	\$30.00	Sep/02, p48	Enjoy the perverse thrill of galactic domination.
	Aspyr Clive Barker's Undying	\$39.95	Nov/02, p50	Sophisticated shooter has a sophisticated story line.
	Aspyr Jedi Knight II: Jedi Outcast	\$49.95	Feb/03, p37	Fantastic gameplay with both weapons and The Force.
	Aspyr Medal of Honor: Allied Assault	\$50.00	Oct/02, p43	WWII first-person shooter is a surefire classic.
	Aspyr The Sims Hot Date	\$29.95	Sep/02, p46	The Sims obey Petula Clark and go downtown.
	Aspyr The Sims Vacation	\$29.95	Jan/03, p45	A must-have for the dedicated Simsian.
	MacPlay No One Lives Forever	\$49.99	Mar/03, p49	A beautiful spy, sly foes, nifty gadgets, fast action—nice.
	MacSoft Max Payne	\$40.00	Dec/02, p42	Max seeks revenge—and gets plenty of it in this FSP.
	GRAPHICS & LAYOUT	A LOSS		
	Adobe InDesign 2.0	\$699.00	May/02, p50	Look out, Quark—Adobe's rival layout tool kicks butt.
	Adobe Photoshop 7	\$609.00	Jul/02, p46	Picture-perfect pixel pusher moves to Mac OS X.
	Adobe Photoshop Elements 2	\$99.00	Dec/02, p40	Most of Photoshop's power for \$500 less.
	Macromedia Director MX	\$1,199.00	Mar/03, p46	Multimedia developers need look no further than Director MX.
	Macromedia Dreamweaver MX	\$399.00	Sep/02, p45	Our favorite Web-design tool gets a strong upgrade.
	Macromedia Flash MX	\$499.00	Jul/02, p51	It started in animation; now it can do anything.
	PRODUCTIVITY & UTILITIES			
•	Apple Keynote	\$99.00	Apr/03. p48	This presentation app was built for OS X—and it shows.
	Bare Bones Software BBEdit 7.0.1	\$179.00	Mar/03, p52	By far the most powerful text editor money can buy.
	Dantz Retrospect Express 5.0	\$79.00	Aug/02, p50	Indispensable backup software goes OS X.
	Microsoft Office v. X	\$499.00	Feb/02, p42	The 800-pound gorilla of productivity applications.
	Script Software CopyPaste-X 1.5.1	\$20.00	Apr/03, p61	Shareware must be great to make the list. This clipboard is.
	VIDEO & ANIMATION			
	Adobe After Effects 5.5	\$649.00	May/02, p49	This motion-graphics stud improves Its 3D powers.
	Apple DVD Studio Pro 1.5	\$999.00	Oct/02, p55	Apple's essential DVD-burning app gets even better.
	Apple Final Cut Pro 3	\$999.00	Apr/02, p45	This pro-level video editor is a real-time revelation.
		The second second		Committee of the Commit

AUDIO							
Apple 20GB iPod	\$499.00	Nov/02, p45	More storage, cool accessories—it's all good.				
Digidesign Mbox	\$495.00	May/02, p59	Audio interface is a traveling musician's delight.				
DIGITAL CAMERAS							
Canon PowerShot S230 Digital Elph	\$399.00	Mar/03, p48	Great 3.2-megapixel camera in a tiny, low-cost package.				
Nikon Coolpix 885	\$549.99	Feb/02, p61	Cute, capable camera captures great images.				
Olympus C-4000 Zoom	\$499.00	Jan/03, p52	Great image quality, 4 megapixels, and versatile controls.				
DISPLAYS	LAYS						
Apple Cinema HD Display	\$1,999.00	Aug/02, p40	23-inch, 1,920-by-1,200-pixel beauty inspires lust.				
Formac gallery 2010	\$1,699.00	Jan/03, p47	Bright, fast, huge—and it costs only \$.0009 per pixel.				
PRINTERS							
Brother 1870N	\$699.00	Aug/02, p45	Need a sturdy laser printer? This one's a workhorse.				
Epson Stylus Photo 2200	\$699.00	Oct/02, p42	The most stunning photo printer we've ever tested.				
SCANNERS	ANNERS						
Canon CanoScan LiDE 30	\$99.00	Nov/02, p52	Entry-level scanner gets the job done inexpensively.				
Epson Perfection Photo	\$399.00	Oct/02, p48	Sophisticated scanner also handles transparencies.				
TORAGE							
Maxtor Personal Storage 5000XT	\$399.99	Feb/03, p44	Solid construction, push-button backup, and 250GB.				
OWC Mercury Elite 160GB	\$349.95	Sep/02, p53	Handsome, sturdy drive is whisper quiet.				
TDK veloCD	\$315.99	Jul/02, p54	FireWire-equipped CD-RW drive is freaky fast.				

Raise your expectations



Elevate your iBook to make it the perfect desktop

The iCurve - Invisible Laptop Stand is the key to replacing your desktop machine with a new notebook. It elevates your screen to a comfortable eye-level height. It raises the notebook off the desk - making room for a full-size keyboard and mouse. And it helps air circulate and keep your new 'hot' laptop cool.

> Gain portability without sacrificing desktop comfort. Add an iCurve to your notebook and have the best of both worlds.



Invisible Laptop Stand



USB Audio Interface

- · Adds stereo audio input to your Mac
- Plug-and-Play, no software required
- · Portable, no installation or power needed
- · Supports MP3, QuickTime and AIFF files



Invisible Laptop Stand

- · Raises screen to the perfect height
- · Cools laptop for optimum performance
- Clears desk for full-size keyboard & mouse
- · Specifically designed for iBooks & TiBooks



FM Transmitter for iPod

- · Play your iPod through any FM radio station in your car, truck or boat
- iPod Powered no battery necessary
- · Fits perfectly on top no dongle or cable

Now you have two easy ways to purchase your Griffin Technology product directly. Order by phone at 615-399-7000 or order online at www.griffintechnology.com.

624 HOW To

GOT A QUESTION?
NEED ADVICE?

A SUBSTION?
NEED ADVICE?

WE
CAN
HELP

PRINT WINDOW IN X

How do I print a Finder window in Mac OS X without taking a screenshot?

OS X dropped the old OS 9 Print Window command you're probably looking for. To bring it back, download SearchWare Solutions' Print Window 2.0 utility (free, www.swssoftware.com), which brings the old Print Window back into OS X.

PUT DOWN THE KNIFE

How do I pry apart my iPod?

Opening an iPod is simple—if you know the secret. We do, and we like you, so we'll share. Turn the iPod upside down so you're looking at the Apple logo; push in on the Apple logo until you hear the clinking pop that metal makes when you bend it. Still pushing on the Apple logo, grip the iPod by its sides and separate the white front from the metal back. The trick is gripping the rear (metal) part of the sides without also holding down the white plastic you're trying to remove.

SOUND ADVICE

What software converts WAV and AU audio files into system sounds for Mac OS 9?

Use Apple's QuickTime Pro (\$29.99, www.apple.com/quicktime) to convert your sound files into the System 7 Sound File format (SFIL) required for OS 9 sounds. Open your audio file with QuickTime Player, select Export from the File menu, choose Sound To System 7 Sound from the pop-up menu, and click Save. To add your new sound to OS 9, drag the resulting file onto your closed System Folder.



QuickTime Pro turns sounds into system sounds.

SECURE FOLDERS

Can you create a password-protected folder in Mac OS X?

Yes. The easiest way to make a password-protected folder in OS X is to make a password-protected disk image. Open Disk Copy (Applications > Utilities > Disk Copy) and choose New > Blank Image from the File menu. Give your new volume a name and choose an adequate volume size. Select the Encryption pop-up menu and choose AES-128 (Recommended), which is a 128-bit Advanced Encryption Standard algorithm. Click the Create button and the New Passphrase dialog will ask you for

a password or phrase to allow access to the data. For maximum security, uncheck the Remember Password box. Now the disk image will require that you enter the password to get to the data.



Create secure disk images with Disk Copy.

SAFARI BOOKMARKS

How do I import my Microsoft Internet Explorer and Netscape bookmarks

to Safari?

Your old browsers saved your bookmarks as an HTML document; however, Safari saves them as an XML-formatted document called Bookmarks.plist (Home > Library > Safari). Safari automatically



Whew, my conversion to Safari is complete!

imports any Internet Explorer bookmarks it finds when you first launch it, but there's no mechanism for importing bookmarks after that. For that, you need to use the Safari Enhancer utility (free, http://



STUCK ICONS

What do I do when Mac OS X desktop icons don't let me click them?

You can fix this odd little OS X behavior by dragging any other icon directly onto the unresponsive icon. The icons will switch places and both will become clickable.

ANOTHER DVD PLAYER

Are there alternatives to the Apple DVD Player in OS X?

Our favorite DVD Player alternative is the free, open-source VideoLAN Client for Mac OS X (www.videolan.org). VideoLAN is technically a streaming-media player, so it won't display DVD disc menus, but it will play video tracks flawlessly. It can even snap DVD screenshots, which Apple's DVD Player won't do.



So much spam, so little time: Give Mail's smarts to all your OS X Macs.

MULTIPLE SPAM SLAMS

I have spent lots of time teaching my Mail application what is spam and what isn't. How can I transfer this knowledge to my other computers? Mail stores all that spam information











UNIX UNIVERSITY

SOUNDS LIKE... How on Earth do you pronounce all that Unix jargon?

Some Unix terms are tough to wrap your lips around, Here's our take on how to pronounce some troublesome terms. For more detailed definitions, see last month's Unix University (Ask Us, Apr/03, p65) for info on how to access Unix's built-in manual pages.

Term	How to Pronounce It	What It Means
etc	et-see	subdirectory for system config files
vi	vee-eye	a text editor
cron	krahn	runs scheduled commands
csh	seashell	C shell
.cshrc	sea shark	the C shell setup file
fsck	ef-sek or ef-suk	file system check program
chmod	sea-aych-mod	changes file permissions
chown	chone	changes user ID on files
116	libe, like bribe	subdirectory for shared libraries
sbin	ess-bin	subdirectory for system binaries
var	where (pronounced with Hungarian accent)	subdirectory for variable data

gordon.sourcecod.com/sites/safari_ enhancer.php), which lets you import bookmarks from just about any other browser.

PASSWORD LIMITS

I set my PPPoE Network system preferences and clicked the Apply Now button, and my Mac truncated the password to eight dots. I need 15 characters (including a hyphen) to connect to the Internet correctly. What can I do?

Don't worry. Your 15-character password remains intact (you actually get a maximum of 29 characters). When you click the Apply Now button, the Network system preference pane represents the password in standard eight-bullet format so that no one but you will know the number of characters in your password.

.MAC'S ENTOURAGE

How can I add my .Mac email account to my existing Microsoft Entourage setup?

You can easily add any number of email accounts to your Entourage setup. Choose Accounts from the Tools menu, click the New button, and enter your . Mac account information. This will add the .Mac account to your Entourage Identity so Entourage will check that account along with your other email accounts.

nit technical questions or helpful tips directly via email (askus@macaddict.com) or c/o MacAddict, 150 North Hill Dr., Brisbane,

Six years of handling tech support for Apple, Power Computing, and a Texas school district have given Buz Zoller Mac superpowers.

in a single file called LSMMap, located in your Mail folder (Users > user name > Library > Mail). To train Mail on your other OS X computers, transfer that file to the same location on those systems.

SONY, MEET IPHOTO

How can I import pictures from my Sony MVC-CD300 digital camera into iPhoto?

The Sony MVC-CD300 comes with a USB cable that will connect to your Mac. Change the USB mode on the camera from Normal to PTP Mode, and iPhoto will recognize the USB connection and download the images.

OPEN RAW FILES

How can I open Canon RAW image files in Mac OS X? ON THE

DISC

CRW-X 1.0

Get Bryan Chang's CRW-X utility (on the Disc or free at www.frostyplace.com/CRW

/index.html). CRW-X can also convert these files to PSD, PPM, and PNG file formats.

CANCEL THAT DRAG

How can I cancel a drag operation in the Finder?

Press Escape before you release the mouse button to move the icon to its original location.

This Month

64 Run Unix Apps in Mac OS X

Unix envy? No more. With the help of Fink and X11, you can run hundreds of Unix apps on your Mac. Best of all, most are free! Galaga, anyone?



67 Make Non-DV Movies Compatible with iMovie

iMovie is a budding moviemaker's dream. If you don't have a DV camcorder, a \$30 app lets you edit almost any movie file, including digicam ones.



68 Give Clock a Face-Lift

Form and functionimagine that! Stamp your own designs on the plain-Jane face of Apple's Clock app.



70 Adorn Your Site with a Custom Favicon

If you surf Safari, you've probably noticed those ittybitty icons that ride shotgun with a Web site's URL. Want to create one? Here's how.



72 Move Old Files to a New Mac

Before you start dumping the entire contents of your old machine into the new, find out which files to take with you and which ones to kiss goodbye.

72 Move Files via Volumes or Media 73 Shuttle Files Across Ethernet

Run Unix Apps in Mac OS X

by Mary E. Tyler



WHAT YOU NEED

- · Mac OS 10.2 or later (\$129, www.apple.com)
- · OS X Developer Tools (free with OS X)
- Fink (free, http://fink.sourceforge.net/download)
- FinkCommander (free, http://finkcommander.sourceforge.net)
- X11 for Mac OS X (free, www.apple.com/macosx/x11)
- X11 for Mac OS X SDK (free, www.apple.com/macosx/x11)
- Internet connection (broadband strongly recommended)

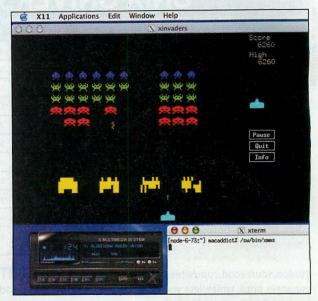
ou've seen the hype all over the Web: "Thousands of Unix programs, completely free!" Cool, you think. OS X runs on a Unix kernel, right? So you should be able to just download any Unix program you want and double-click, right? Wrong. Ah, if only it were that easy. Then again, it ain't difficult, either.

Thankfully, there's Fink. No, we're not referring to your whiny, kiss-ass brother or any particular rat. Fink is a nifty open-source project that ports Unix software to OS X. Its intention is not so much to port everything Unix to the Aqua interface as to enable Mac users to compile and run Unix apps. OK, yes, to actually run these programs, you will need to leave the beauty that is Aqua to tread into the Terminal—and even scarier, X11—but fear not. While ambitious Unix connoisseurs have relied on the Terminal

ON THE DISC

to install Unix apps in the past, the latest rev of Fink allows you to do most of the work in Aqua.

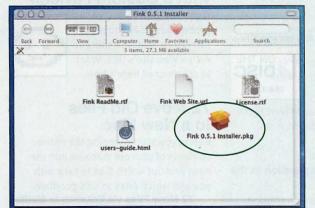
If you're interested in exploring the world of Unix and want to take advantage of those thousands of free Unix



Want free apps like this retro Space Invaders take-off? Install Fink and X11, and discover the world of Unix in Mac OS X.

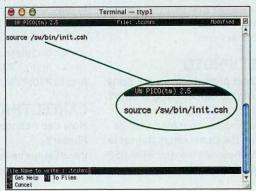
apps, we show you first how to install and configure Fink, and then how to use it with FinkCommander to install Unix binaries and run apps in X11 (X Window System 11) on your Mac.

Install the Fink Package If you haven't already done so, download Fink from the URL listed above (click any download file and select a mirror site to begin the process), or get it from our Disc. Once you mount the disk image (and get your mind out of the gutter), just double-click the package (.pkg) file to install it (you must have Administrator access). Unless you want to trash Fink and everything it has installed, don't move the sw folder or change its name. If you do, you'll learn more about Unix than you ever wanted to know. (Note: At press time, the Virex 7.2 update on .Mac severely crippled Fink and vice versa. Please visit the Fink Web site for current news before installing Fink.)



Hmm...nice package. Just double-click this file to install Fink in your system.

Shuck the Shell Time to roll up your sleeves. To use Fink, you need to edit the default Terminal shell's configuration file (a shell is a Unix command-line interface; the Terminal is a shell around OS X's Unix kernel, Darwin). Launch the Terminal (in the Utilities folder in Applications). At the prompt type pico.tcshrc, and press Return to edit the config file in pico, a Unix text editor. (If you're using something other than the default tcshell, edit the config file for your particular shell.) Then type source /sw/bin/init.csh (this executes Fink's initialization file when a new shell opens), press Control-O (that's an O as in Omigod-I-can't-believe-you'remaking-me-friggin'-do-this) to save the file, press Return, press Control-X to exit pico, and quit the Terminal.



Call up pico, a Unix textfile editor, from the Terminal to edit the shell's configuration file so you can use Fink.

Search Fink's Database for Apps To have Fink scan its online database for programs to install (you need to be connected to the Internet), launch the Terminal to open a new window (aka your newly edited shell). At the prompt, type fink scanpackages and press Return. Fink will call up the sudo version of the command, display the command line, and then ask for your password. Type it in and press Return. Fink will do its deed, combing the database and displaying gobs of gobbledygook in the process, and then return a prompt when finished. Close the Terminal window.

Last login: Fri Jan 24 13:89:15 on ttyni me to Darwin d'a a MacAddicto fink scanpackages sudo /sv/bin/fink scanpackages Password: Reading package info... Updating package index... done. Information about 924 packages read in 15 seconds. dykg-scorpackages dists/local/moin/binary-darvi local/main/binary-darvin-powerpc/Packages.gr Yrote 8 entries to autput Packages file, dykg-scorpackages dists/stable/main/binary-darvin-powerpc/Packages.gr Yrote 8 entries to autput Packages file, dykg-scorpackages dists/stable/ryspto/binary-darvin-powerpc/Package Hrote 8 entries to autput Packages file, dykg-scorpackages dists/local/packattrap/binary-darvin-powerpc/Packages file, dykg-scorpackages dists/local/mointrap/binary-darvin-powerpc/Packages Hrote 8 entries to autput Packages file, dykg-scorpackages dists/local/mointrap/binary-darvin-powerpc/Packages compackages dists/local/main/binary Wrote 8 entries to output Pockages file. <| 'm a MacAddict> []

To have Fink find all of the available Unix apps it can install from its online database. command it to scan packages.

Go to X11 Before Apple released the X11 for OS X beta (Apple's Xfree86 port), you had to use Fink to install both Xfree86 and Xfree86-Threaded to run X11, a GUI (graphical user interface) for running Unix apps. Though the Fink Project offers X11 packages, it recommends Apple's release. Download the file (Apple may have a different release by the time you read this, so search its Web site if the URL is no longer valid); it's a good 42MB, so unless you have a broadband connection, go get a cup of coffee...and a Danish...and some Chinese food. Download the SDK from this site. too. When the files are done downloading, install X11, then the SDK. (For subsequent X11 releases, check the Fink Web site for any fix-it scripts and installation instructions.)



At press time, you could download Apple's public beta of X11 for Mac OS X from Apple's Web site.

FinkCommander, Install My Package

Yes, you Unix junkies know we can install packages (apps) in the Terminal using dselect, but we're going to be nice and play in Agua (regardless of how much you cry that Agua is for weenies). If you're a real propellerhead, feel free to follow the dselect directions on the Fink Web site. For the rest of you, FinkCommander provides a Fink GUI and a one-stop-shop for installing Unix apps. Install FinkCommander (drag the app from the disk image to any location), and then launch it. When it starts, it connects to a package database and displays a lengthy list of available apps in its window. To install a GUI for Darwin, click the Category header to list packages by category, and then scroll down until you see the x11-system offerings. Select the package named systemxfree86. From the Binary menu, select Install. FinkCommander will install the package (and tell you to have a nice day).



Rather than install the Xfree86 System package via the Terminal, with FinkCommander you can install it in the comfortable surroundings of Aqua.

VHATCHU TALKIN' OUT, WILLIS? TECHNOBABBLE DEBABBLIFIED

binary A program that can be installed on your Mac and configured without compiling.

compile To turn text-based code into a binary format that the computer understands.

eleventeen More than a whole lot, but less than a buttload.

fullscreen (aka rooted) The mode in which the X-window manager takes over the entire screen; you won't be able to see or use your OS X Aqua windows.

GUI Often pronounced gooey, this acronym stands for graphical user interface, which provides a system of graphics, text, and

icons for commanding a computer. OS X's GUI is called Aqua.

rootless The opposite of fullscreen, this mode allows you to switch back and forth between your X-window manager and your OS X Aqua windows.

shell The command-line interface to Unix. There are a variety of shells available, each one different. Think of them as cars-some go fast, some are tough, others are reliable. They all get you from point A to point B, but the experience of the road differs.

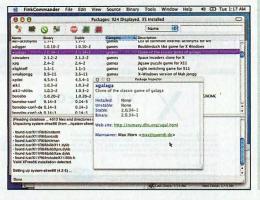
X-Window System Developed by MIT, X-Window System is essentially a graphics-display system. The numerous implementations run on a wide range of computer systems, including Mac OS X, Unix, Linux, and Windows.

X11 Also known as X Window System version 11. This implementation of X Windowing System is the Unix standard, and provides a GUI to Unix.

Install Apps Now for the fun part...games! OK, there's a lot of other cool software available from Fink—everything from music codecs to ASCII art libraries—but hey, let's have some fun. Depending on your age and Generation X-itude, you may remember Galaga, the classic 2D space shooter—XGalaga is a Unix clone. Scroll up the list until you see Games under the Category list, and select XGalaga. From the Binary menu, select Install to install the package on your machine; FinkCommander will do any necessary configuring. To find information about any particular application, click a package and select Show Package Info from the Tools menu. Rest assured that

the apps listed in FinkCommander are stable; all the bugs got shaken out on someone else's desktop, so they won't be chomping on yours.

Play games?! Now we're talking! Let's install Galaga, FinkCommander.



about eleventeen ways to start X11 on your Mac, but this is one of the easiest. In the Applications folder, double-click X11 (essentially a GUI for Darwin). Depending on what version of X11 you have installed, the app may ask if you want to be in Rootless or Fullscreen mode; choose Rootless. X11's Xterm window launches, displaying a login prompt (similar to the Terminal's); type /sw/bin/xgalaga and press Return to

launch XGalaga in a new window. Now go kick some alien butt!

> To play XGalaga (or launch any other installed Unix app), fire up the X11 GUI and call up the app from the bowels of Darwin.

Mary E. Tyler loves
Macs so much that she
still buys them even after one
tried to burn her house down.
She has no such allegiance to
Unix workstations.



WANT APPS?

In case you're overwhelmed by all the apps listed in FinkCommander's window, here are some of our favorites. Though we've provided you with the URLs so you can get more info, we highly recommend that you install these packages through Fink.

AbiWord (www.abisource.com) This free, open-source word processor reads Word 97 through 2000 files (take that, Microsoft!). Even better, a native OS X version is coming soon.

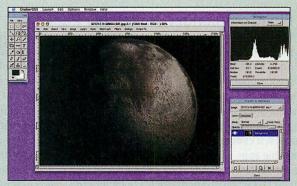
Bidwatcher (http://bidwatcher.sourceforge.net) Addicted to eBay? This eBay management and sniping tool should satisfy your fervent buy-and-sell habits.

Bluefish (http://bluefish.openoffice.nl) If your writings are on the Web (not on the wall), this HTML editor is a handy, easy-to-use tool for hard-core Web monkeys. It even features colored syntax so you can quickly eyeball code as you go.

Ethereal (www.ethereal.com) If you need to see what's heading down your network pipes or want to examine packets, this network protocol analyzer will do the trick—and of course it's free.

FilmGIMP (http://filmgimp.sourceforge.net) This cool movie-editing tool lets you paint and retouch movie images, and was used in feature films such as *Scooby-Doo*, *Harry Potter*, and *Stuart Little*.

GIMP (www.gimp.org) This tool (aka GNU Image Manipulation Program) is the Unix world's answer to that gosh-darned-expensive Adobe product. Manipulate your graphics and photos—for free.



Need to clean up frames in your movies? FilmGIMP will let you do things to make your movies look better, such as tweak exposures.

LilyPond (www.lilypond.org) If you're well versed in music notation, you'll appreciate this app, which prints beautiful music (sheet notation) from a plain-text description file. It can also import from a variety of other music-notation programs.

surf (http://surf.sourceforge.net) Student or algebraic egghead? Graphing high-school algebra gets easier with this app, which will help you plane algebraic curves and surfaces. Ax+ By=C, anyone?

Window Maker (www.windowmaker.org) This X11 window manager is GNUstep (NeXt-like) in appearance—great for those who feel lost in Aqua and want something retro to go with their Objective C development environment.

YAFC (http://yafc.sourceforge.net) If you need to shuttle files to remote locations, YAFC (Yet Another FTP Client), has enhanced FTP features, including SSH2 (sftp) support for superb encryption.

Make Non-DV Movies Compatible with iMovie

by Kris Fong



WHAT YOU NEED

- QuickTime 6 Pro (\$29.99, www.apple.com)
- iMovie 2 or later (free, www.apple.com)
- Any movie file in a QuickTime-compatible format (like .mov or AVI)

e're not rich. Neither—most likely—are you. Thankfully,
Apple seems to respond to our financial limitations
by offering sophisticated applications for free, letting
us save our scrap for the things that make these apps tick—like
digital cameras and DV camcorders. If you're like us, you probably
couldn't afford both, so you bought a digital camera with a movie
mode. Unfortunately, now you're stuck with dozens of unedited



No DV camera? No problem. You can edit any QuickTime-compatible file in iMovie if you upgrade to QuickTime 6 Pro.

miniclips, since iMovie only lets you edit DV footage, like that from a DV camera. Or are you?

Nope. Not if you have QuickTime 6 Pro, which allows you to take any QuickTime-compatible movie, like those from your digicam and movies downloaded from the Web (such as .mov, AVI, and MPEG-4), and convert it to DV Stream—a format that's compatible with iMovie. If you've never had the opportunity to play with iMovie for lack of a DV camcorder, here's a cheap way to transform movie files into iMovie-compatible clips.

Transfer Your Movies Scrounge up QuickTime-compatible movie files on your Mac or download movies to your hard drive from a source such as a digital camera, the Internet, or a CD (including your MacAddict Discs). Make sure you have plenty of free hard-disk space (our 15-second, 5MB movie file bloated to a 50.2MB DV monster). If your hard drive has plenty of space, skip to step 3. But if disk space or time is slim, edit

the crap from clips before converting them.

Need clips? You can copy MacAddict staff videos to your hard drive or download movies from the Web—as long as you're only reediting them for personal use.



Trim the Fat To cut down on file size and conversion time, trim unwanted excess from your movie's beginning and/or end. (If you want to preserve the original, first make a copy.) Open the movie in QuickTime Player. From under the play bar on the left, drag the out selection

marker (the right triangle) to the point where you want the video to end (the video scrolls when you move the marker). Then drag the in selection marker (the left triangle) to the point where you want the video to start. Select Trim from the Edit menu, and then save the clip.

We trimmed the footage outside these selection markers to reduce the file size and conversion time.



Convert the Clip With the movie in QuickTime Player, select Export from the File menu. In the resulting dialog, select Movie To DV Stream from the Export pop-up menu, give your new clip a descriptive name in the

Save As field, choose where to save it, and click Save. Then relax for a while—depending on the original, the conversion can take a long time. Repeat for any other movies.

Converting to DV Stream?
Go grab a sandwich.
Our 45-second clip
took about 6 minutes to
convert on our iBook.



Hello, iMovie Once you've got your clips converted, bring the bunch into iMovie. Launch iMovie. From the File menu, select Import File. In the resulting dialog, navigate to and select a DV file, or hold down the Command key and select multiple files. Then click Import; iMovie imports the clips

and displays them in the shelf, ready for editing. Happy snipping!

> To bring DV Stream clips into iMovie, select import File and select all your favored files.

Kris Fong thanks Pee-Chee for helping her cheat on conversion quizzes.



Give Clock a Face-Lift

by Kris Fong



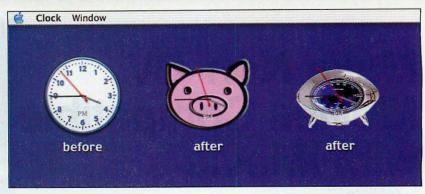
WHAT YOU NEED

- · Mac OS X
- An image editor that supports layers and transparency, such as Photoshop (\$609, www.adobe.com)

ike the nubby beige sweater our endearing Grandma knitted for us, our Clock app hasn't made much of a public appearance. Why? Personally, we think it looks rather



mundane—schoolmarmish and boring. With all of Apple's cool eye-candy widgets, you'd think the company could have come up with something a little more, well, interesting. Besides, we get the



After a Clock-versus-Photoshop face-off, our formerly plain-Jane Clock now has more faces than Michael Jackson.

time from our faithful, ever-present menu-bar clock, which has been serving its purpose admirably for years.

Then again, what's the fun in that? We Mac addicts empty the Trash from customized dog-dish and toilet-bowl icons. We remove brushed metal from our window interfaces. We hijack the Poof (see "Hijack the Poof," Mar/03, p71). Why settle for the defaults when you can easily turn Apple's Clock app into something more visually appealing and have a fun toy to kick around on your desktop or anchor in the Dock? For all you modern-day Gepettos, here's how to give Clock a face-lift.

Grab the Graphic Clock has two different displays—a round analog face with hands (which we show you how to alter), and a square digital readout with the date. Both faces are actually 128-by-128-pixel TIFF images. In the Applications folder, Control-click the Clock icon and select Show Package Contents from the contextual menu. In the resulting window, open the Contents folder, and then the Resources folder. The analog graphic is Clock02.tif; the digital graphic is background.tif. Select Clock02.tif, make a duplicate (Command-D) to preserve the original, and then open the copy in Photoshop (or a comparable app).



Make a duplicate to preserve the original face graphic (if you wish), and then open the file in an image editor.

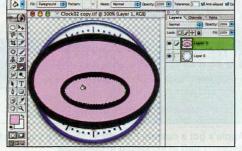
Put On a Happier Face The analog face is a simple numbered circle against a transparent background. From the Layer menu, select New, then Layer, and click OK in the resulting dialog to create a new layer for designing a new graphic. You can use the old face as a template for a new one, or freeform-design your own face within the 128-pixel square boundary. Or you can size down a masked-out photo and paste it into a new layer as shown below. Keep in mind that the hour and minute hands (anchored in the center) are dark gray and the second hand is red—don't use these colors excessively in your creation, or you'll end up camouflaging the hands. If you're rolling your own design, skip to step 5 when you're finished. To see how we created our piggy, follow the next two steps.



You can quickly change the face by pasting in a photo and positioning it with the original so that the hands align properly in the final product.

Pen the Pig To create our hog's head, magnify the canvas to 300 percent and select the new layer (the one you created in step 2) in the Layers palette. Select black as the foreground color, then use the elliptical marquee tool to draw a horizontal oval that spans the full width of the canvas. Select the paint-bucket tool and click the oval to color it black. Then draw a slightly smaller oval and use the arrow keys to center it over the black oval. Select pink as the foreground color and click the second oval with the paint-bucket tool to color it pink. In the same manner, draw two successively smaller ovalsthe larger one colored black and the smaller one pink-to form the snout.

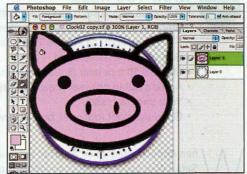
Copy our pig graphic by simply drawing a series of black and pink ovals and circles with the elliptical marquee tool.



Make a Face Draw a small, vertical black oval for the left nostril, then copy it, paste the copy into a new layer, and move it to where the right nostril should be. Create a small black circle for the left eye, copy it in a new layer, and move the copy to form the right eye. Merge the top two layers down to Layer 1 by selecting Layer 3 in the Layers palette, clicking the top right triangle in the palette to open the menu, and selecting Merge Down. Repeat with Layer 2. Then select black as the foreground color, select the brush tool, select 5 from the Brush drop-down menu, and draw two ears. Switch back to the pink

color, select the paint bucket tool, and click each ear to color it pink.

> Use the brush tool to freeform-draw the ears, and then dump in the pink color via the paint bucket.



Save Face Once you've finished your graphic, you need to eliminate the original clock-face layer but preserve the transparency before you save it. Bring the canvas size back down to 100 percent. In the Layers palette, select the original clock layer (Layer 0), click the disclosure triangle at the top right of the palette, and select Delete Layer from the drop-down menu. A dialog pops open, asking if you really want to delete the layer-click Yes. Then save the file.



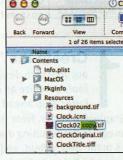
To get rid of the original clock face, simply delete its layer.

Pull the Switcheroo To put your new design to use, go back to the Clock (package contents) window (if you closed it, Control-click the Clock app and select Show Package Contents from the contextual menu to reopen it). Your new design should be in the Resources folder under the name Clock02 copy.tif, unless you renamed the file and saved it elsewhere. Select Clock02.tif (the original design), and rename the file ClockOriginal.tif or the like to preserve it. Then select your new face and rename the file Clock02.tif. Make sure this file

resides in the Resources folder if it isn't there already. Then close the Clock window (which hides the package contents), fire up the Clock app, select Analog from the Preferences, and watch time tick away.

Rename your new clock graphic as Clock02.tif to have Clock use your own design as its face.

Kris Fong claims that while no pigs were harmed during this face-lift process, they sure are delicious.



Clock's digital display (background.tif in the Resources folder) requires a bit more futzing, due to the strict placement of the clock readout and the calendar date sheet. If you want to adorn the digital display with your own creation, here are a few things to consider when designing this face.

Keep the Time Backdrop Dark Clock's time readout is displayed in white characters over the face graphic. Choose darker colors and stick with less-busy graphics when designing the background area to ensure that you can still read the time.

Keep the Date Sheet Light The month, date, and day of the week are displayed in black text. Stick with lighter colors in this area

Designing the digital display is trickier. We gave our squirrel some new duds to keep the date visible.



and avoid placing anything graphical behind the month and day-of-the-week text to ensure legibility.

Lower Opacity to Maintain Alignment To make sure the time and calendar displays align with the new graphic, lower the latter's opacity in the Layers palette so you can see the original face through your new one.

Adorn Your Site with a Custom Favicon

by Niko Coucouvanis



WHAT YOU NEED

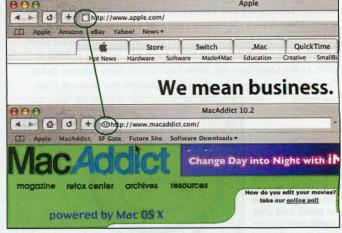
- Graphics editor, such as Lemke Software's GraphicConverter (\$30, www.lemkesoft.com)
- FTP client, such as Panic's Transmit (\$24.95, www.panic.com)
- Mac OS 10.2 or later (\$129, www.apple.com)
- · Apple's Safari browser (free, www.apple.com)
- · Your own Web site
- · Good eyesight (optional, but recommended)

hen Apple invited us on a surfin' safari with its new Safari Web browser, the company introduced Mac addicts everywhere to the wacky world of Favorites icons, aka *favicons*. Once exclusive to Internet Explorer for Windows users (though other obscure browsers such as Chimera Navigator and Mozilla can also display them), favicons add personality to a Web site's name—they're those itty-bitty graphics to the left of the site address in the browser's URL bar. They also ride shotgun with the site name in Safari's Bookmarks menu and list, providing some visual guidance

ON THE DISC

Graphic Converter
4.54, Transmit X 2.3

through your vast sea of text titles. If you want your Web site's name to stand out in a Browser or Favorites menu crowd, adorn it with a custom favicon.



Apple's got a custom Favorites icon, and you can too—if you're decently deft at scrawling in miniature.

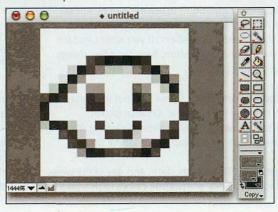
To view one in person, just surf Safari to our Web site (www.macaddict.com) and point your peepers at our little Max graphic in the URL bar. As you can see (or not see), favicons are small. Really small. 16 by 16 pixels square, to be precise (imprecisely, they're a little smaller than a pea). They translate best across different browsers and platforms in 4-bit color (16 colors), so if you don't limit the number of colors in your design, your intricate creation may end up looking like a miniature Rubik's Cube. Here's how to design your own favicon with GraphicConverter, and then stamp the critter on your site.

Create the 'Con You can either sketch out your own design using GraphicConverter's tools or resize an existing graphic—if doing the latter, skip ahead to step 3. Otherwise, launch GraphicConverter. From the File menu, select New, then Image. In the resulting dialog, type 16 in the Width field, 16 in the Height field, and 72 in the Resolution field; select 16 Colors (4 Bit) from the Depth pop-up menu, and click New to create a new 16-by-16-pixel canvas. Unless you're one of those guys who paints tourists' names on grains of rice, use the magnifying-glass tool to zoom way in on your canvas—like 1,000 percent or more.



Favicon
dimensions are
diminutive but
easy to remember:
16 colors and 16
pixels each way.

Etch a Sketch To create the icon freehand-style, choose a color by clicking and holding the foreground color swatch (second rectangle from the bottom) in the tool palette and selecting a color from the palette. Then grab the pencil tool and go to town. Remember, even though you may have blown up the canvas 1,000 percent, you still only have 16 pixels to work with in either direction, so don't get too crazy with the pencil. To make sure your design isn't getting too jumbled, zoom out of the graphic periodically to view your work at real-life size. When finished, skip ahead to step 4.



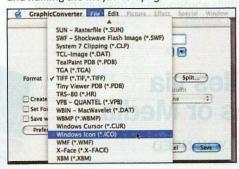
Even on a 1,444percent scale, you only get a 16-pixel grid, so don't make your icon too detailed. Make a Mini Me If you've already got a logo (or a mascot), you can easily size down that graphic; however, 16 pixels is still 16 pixels, so select simple art for optimal scalability. Open the image in GraphicConverter. If the graphic isn't already square, click the selection tool (the dashed rectangle), hold down the Shift key, draw a square over the part of your image you want to include, and double-click in the square to crop. From the Picture menu, select Size, then Scale. In the resulting dialog, check both the Scale Picture and Keep Proportions boxes, type 16 in the Dimension Width Percent field, and click OK. Trim the

color fat by selecting Colors from the Picture menu, and then Change To 16 Colors (4 Bit) to "automagically" reduce your icon's color table.



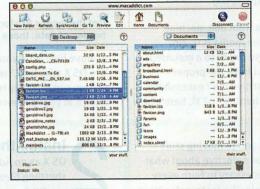
You may find yourself squinting once you size down your logo or mascot. We warned you—these suckers are tiny.

Save Your Scrawl Favicons are generally ICO files (a Windows-proprietary icon format), but some browsers prefer PNG (portable network graphics) files. Since GraphicConverter can save favicons in either format, use both to ensure that your favicon can reach the widest possible audience. From the File menu, select Save As. In the resulting dialog, select Windows Icon (*.ICO) from the Format pop-up menu, name the file favicon.ico in the Save As field, and click Save. Then repeat the process, selecting PNG (*.PNG) from the Format pop-up and naming the file favicon.png.



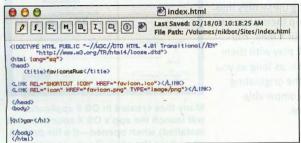
Save your finished miniature masterpiece as an ICO file—it's down here as Windows Icon (true to Windows logic).

Serve It Up Time to make your icon famous. Fire up your FTP client of choice (we used Panic Software's Transmit) and upload both of your favicon files (PNG and ICO) to your Web server; stash them in the root-level directory (the one that houses your main index.html page).



Once you've housed your favicon file on your site, what's its next stop? URL bars and Favorites or Bookmarks lists around the world.

Yo, Browser, Check This Out To make sure your favicon will display in a browser, add a couple tags to your main index.html page so browsers know where to find the icons. Open the index.html file in a text editor and type the following line under the (HEAD) section of your HTML page: (LINK REL="shortcut icon" HREF="favicon.ico")
\(\lambda \subset LINK \rangle \). Press Return and then type (LINK REL="icon" HREF="favicon.png" TYPE="image/png")
\(\lambda \subset LINK \rangle \) (don't worry, the text is not case sensitive). If you're a homepage.mac.com peep or don't have your own server or domain name, you need to add these (LINK REL) tags to every Web page on which you want the custom favicon to appear—a good reason to upgrade to a custom domain name, we'd say. Now go fire up your site in Safari and check out your minuscule masterwork.



Because browsers can't sense your creativity, spell out where to find your favicon files with these <LINK REL> tags.

EXTRA CREDIT

Double Your Pleasure Why stop at one when you can adorn your Web site with a different favicon for any given page? Just add the <LINK REL> tags to a specific page's HTML file, but modify the file name that follows the HREF= part to point to a different favicon file name (make sure to put double quotes around the file name).

Think, Uh, Different If you're too lazy to create your own petite pic, you can always "borrow" someone else's graphic. To hijack, say, Apple's favicon, you'd stick the following tag in your HTML file (but we didn't tell you to do this): <LINK REL="shortcut icon" HREF="http://www.apple.com/favicon.ico"></LINK>.

Niko Coucouvanis's favorite icon is still Betty Crocker, though he knows she'd look like a lint ball at 16 by 16.

Move Old Files to a New Mac

by Carol S. Holzberg

aybe you say you want an evolution but still revel in having a desktop under a striped apple. Maybe you travel often and want a portable companion-one with a Carbon system, not one who's carbon-based. Or maybe your lessthan-two-year-old Mac can't partake in the latest and greatest Mac-processor gluttons whose software boxes are currently proliferating on store shelves.

Regardless of your reasons for getting a new Mac, you'll no doubt be shuttling files from the old one to the new. But how do you know which files to move and which to leave behind? And if you're migrating from Mac OS 9 up to Mac OS X, how can you make sure that the OS recognizes them and that others who share your Mac can access them? Here are two efficient ways to move files and set them up for recognition, access, and permissions in OS X.

Move Files via **Volumes or Media**



WHAT YOU NEED

- Two Macs
- Media-copying device (CD burner, Zip drive, iPod) or server storage (iDisk)

he most convenient way to move files from one machine to another is to copy data to removable media (CD, Zip, CompactFlash, external hard drive, and so on) or to a mounted volume (server, iDisk, and the like), if you have the proper hardware or volume access. If your file archive isn't excessively huge (if it is, see "Shuttle Files Across Ethernet," p73), here's how

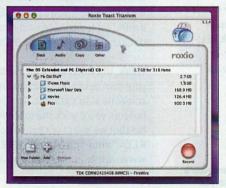


Got the means to store files on these? If you don't have hordes of data, these discs and disks are ultraconvenient.

to move files from your old beast to your new one. Also, for you OS 9 to OS X migrants, we show you how to set up your files so the system can properly recognize and access them, and so they'll launch in your preferred app.

Get a Move On As when you're moving stuff from one apartment to another, be selective about what items to take with you. It's not necessary to burn every file from your old Mac onto multiple CDs for transfer. Your new Mac already has the proper System files, and carrying over needless Extensions, Control Panels, and other what-does-thisdo files could spell trouble. Also, leave your apps out of the mixit's best to install them fresh. However, it's OK to move apps that don't come with an actual installer. Copy, burn, or upload just your data files and, if you still reside heavily in OS 9, your appspecific data Preferences (like browser bookmarks and email-

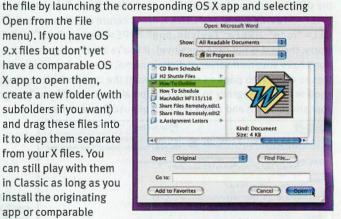
related items). Look through every folder for Word files, MP3s, databases. pictures, and the like. Don't forget your plug-ins, special fonts, iTunes libraries, email archive and addresses. and browser bookmarks.



Burning your prized files to CD is convenient, unless your archive requires more than a few burns.

Install the X Files On your new Mac, log in to OS X as an Administrator, and install your apps before shuttling files over (launch Classic if you need to install any OS 9 apps). Don't forget to check the Web for application updates. Then insert the media or mount the volume of your in-limbo files and simply copy the files to your hard drive via drag and drop. With OS 9.x files such as Word or Photoshop documents, opening a file in its corresponding OS X app will update the file for OS X use (if double-clicking a file launches Classic, open

Open from the File menu). If you have OS 9.x files but don't yet have a comparable OS X app to open them, create a new folder (with subfolders if you want) and drag these files into it to keep them separate from your X files. You can still play with them in Classic as long as you install the originating app or comparable software.



Many files created in OS 9 applications will launch the app's OS X counterpart (if installed) when opened-if a file doesn't, open it via the app's Open command.

Set Access OS X allows multiple users to share one machine; however, they don't have access to every file and folder on a shared Mac if they're logging in as separate users. Therefore, if you want to share files with other users, place the files in your Public folder inside your own user folder (click Home in a Finder window)—by default, users have read-only access to files stored here. To give a specific user access to a particular file, copy the file to the Drop Box folder inside that user's Public folder. If you want to give multiple users read and write access to a file or folder, select the item and press Command-I (Get Info). Click the Ownership & Permissions disclosure triangle; under Group, select Read & Write from the Access pop-up menu.



By enabling Read & Write privileges, you allow other users to take files from or add files to your Public folder, as well as save changes to files.

Set the Defaults To make a file launch in a specific application every time you double-click it, select a file and press Command-I. In the Info window, click the Open With disclosure triangle

and select an app from the pop-up menu. If your desired app isn't listed, select Other from the menu, and then navigate to the preferred program. To make your chosen application the default for opening similar files—say you want all your old SoundJam MP3 files to launch only in iTunes or your QuickTime JPEG files to open in Photoshopclick Change All.



Since the app is RIP, we set this SoundJam MP3 to launch iTunes by default, and then clicked Change All to have all our other SoundJam files do the same.

Shuttle Files Across Ethernet



WHAT YOU NEED

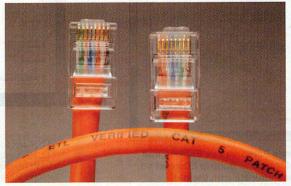
- . Two Macs with OS 9.x or OS X installed
- · Ethernet crossover cable

oving files by way of CDs, Zip disks, or your teensy 100MB-capacity iDisk over your pokey modem is bonehead simple, but it can be time-consuming if you've got tons of files to transfer and not even Dr. Phil can free you from your inner packrat. Luckily, those keen folks at Apple built networking options right into OS 9.x and OS X, allowing you to connect two Macs-even if they run different versions of Mac OS—with a simple Ethernet crossover cable. Here's how to set up this simple network to transfer files.

Get Hitched Before you unplug that Ethernet cable from your cable modem and plug it into your new Mac in hopes of a quick tether, stop-it ain't the right type of cable. You need an Ethernet crossover cable, also known as a Category 5 Crossover Patch Cable (about \$10 to \$20 at most computer stores), to make a direct connection. Unlike a standard RJ-45 Ethernet cable, a crossover cable has reversed pins so that the two sides transmit and receive data on different wires. Simply plug an end into each Mac's Ethernet port to connect your two Macs together.



If you've got mega megabytes of stuff, networking two Macs to transfer files is one of the quickest and cheapest solutions.



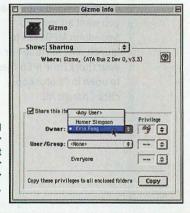
Make sure you have an Ethernet crossover cablenot a standard Ethernet cableif you want to network two Macs together directly.

Start Sharing If your old Mac runs OS X, skip to step 3. If your old Mac runs an earlier OS, select Chooser from the Apple menu and make AppleTalk active. Select Control Panels from the Apple menu, then File Sharing to open the window. Click the Start/Stop tab and type your name, a password, and a computer name in the appropriate fields if this information isn't already there. In the File Sharing Off section, check the Enable File Sharing Clients To Connect Over TCP/IP box, click Start, wait for File Sharing to start up, and then close the window. From the Apple menu, select Control Panels, then AppleTalk. Choose Ethernet from the Connect Via drop-down menu, and close the window. To share your hard drive with your new computer, select its desktop icon and press Command-I. From the Show pop-up

menu, select Sharing. Check the Share This Item And Its Contents box and select your name from the Owner pop-up menu. Skip to

step 4.

To ensure read and write access to your old Mac's files, select yourself from your hard drive's Owner pop-up menu.

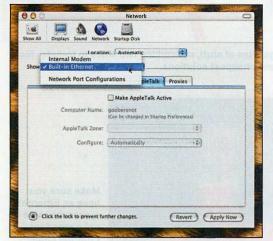


Start Sharing, Option Two If your older Mac runs OS X, log in as an Administrator, select System Preferences from the Apple menu, and then click the Sharing preference to display its options. Type a name for your machine in the Computer Name field if there isn't one. Click the Services tab and check the Personal File Sharing box in the left column to turn on File Sharing. Then click the Network preference at the top of the window to display its options. From the Show pop-up menu, select Built-in Ethernet and close the window.



To get an old OS X Mac to talk to your newer one directly, enable Personal File Sharing.

Set Up Your New Mac On your new Mac, log in as an Administrator and select System Preferences from the Apple menu. Click the Sharing preference to display its options. Enter a name for your new computer in the Computer Name field if one isn't there already (choose one that's different from your old machine's). Click the Services tab, and then check the Personal File Sharing box. When File Sharing finishes starting up, click the Network preference at the top of the window, and select Built-in Ethernet from the Show pop-up menu. If connecting to an OS previous to OS X, click the AppleTalk tab, check the Make AppleTalk Active box, and click Apply Now.



Enable your new Mac's Personal File Sharing and set the Network preference to Built-in Ethernet so the new Mac can communicate with the old.

Make the Love Connection To access files on your old Mac, select Connect To Server from the Go menu in your new Mac's Finder. You should see the names of your old and new Macs in the resulting dialog. Select your old Mac's name and click Connect. In the dialog, choose Registered User, type the user name and password for your old Mac in the designated fields, and click Connect. In the resulting dialog, select a volume and click OK to mount it on your desktop. You now have full access to your old Mac's contents. Follow steps 2 through 4 in "Move Files via Volumes or Media," p72, to get your files properly acclimated (you can pretty much just drag and drop files and/or folders onto your new Mac).



Our old Mac (Barney) and our new Mac (goobersnot) appear as network volumeswe chose Barney to access its volume and files for transfer.

Carol S. Holzberg, Ph.D., is an educational technology specialist, a computer journalist, an anthropologist, and the technology coordinator for three Massachusetts schools.



It's story time. Anywhere. Anytime.*



*Milk and cookies not included.









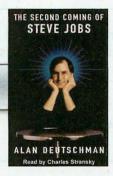


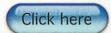


Now anytime can be story time again. With Audible, your Mac iPod, desktop or notebook can read you anything you want to hear whenever you want. Listen to best selling audiobooks while you work and while you workout. Take in the daily audio edition of The Wall Street Journal on your daily commute. The digital spoken word experience is at Audible - where you'll find over 30,000 hours of literate, thought-provoking, laugh-out-loud, heart-wrenching, nail-biting audio from the greatest storytellers, speakers, comedians and actors. Close your eyes and you'll swear you've become a child again. Come hear what you've been missing:

- · Over 6000 audiobooks to choose from
- 1700 unabridged audiobooks (perfect for your super-spacious iPod)
- 23 audio periodicals (like Scientific American and The New York Times)
- One audiobook and one audio periodical each month for just \$14.95 a month (a \$70 value!)
- Two audiobooks each month for just \$19.95 a month (a \$100 value!)

*Get Alan Deutschman's controversial audiobook FREE
The Second Coming of Steve Jobs





www.audible.com/macaddict

Mac Addict

Welcome...

These new Mac Addict Advertisers.

SoWhatSoftwarePg.88 the MACisp for nationwide dialup

Join them...

in the July 2003 issue of MacAddict

with bonus distribution at MacWorld.

Ad Space close April 29

On-sale date June 17

Did you know?

- 74% of our audience own Games/Entertainment Software.
- 82% own Photo Image editing Software.
- The average number of Macs at home owned by our readers is 3.
- 53% of their home computers are networked.

Contact your Ad Manager today!

Ana Epstein

Direct Sales-Ad Mgr (415) 656-8416 ana@macaddict.com

Advertiser Index

Advertiser	Contact	Page
Academic Superstore LLC	(800) 294-4035	90
Apple Computer	www.apple.com	C2 - pg :
Applelinks	www.ThinkDifferentStore.com	91
Aspyr Media	(512) 708-8100	6
Aspyr Media	(512) 708-8100	55
Audible.com	www.audible.com/macaddict	75
Coast to Coast Memory	(800) 4-Memory	93
CompuExpert	(888) 948-9661	91
Connectix	www.connectix.com	49
Crucial Technology	(800) 932-4995	9
Destineer Studios	www.destineerstudios.com	13, 40
Dr. Bott, LLC	(877) 611-2688	86.87
DriveSavers	(800) 440-1904	89
Econ Technologies	www.econtechnologies.com	93
Fatcow Web Hosting	(800) 925-2184	90
Griffin Technology	(615) 255-0990	61
Inkfarm.com, Inc.	(800) ink-farm	90
InnoTech	(877) 858-7722	92
Jiiva, Inc.	www.superscrubber.com	45
Leister Productions	(717) 697-1378	91
Lind Electronics, Inc.	(800) 897-8994	89
Mac Solutions	(800) 873-3RAM	88, 92
Mac-Pro Systems	(800) 525-3888	91
MacMall	(800) 965-3282	84.85
MacofAllTrades	(800) 304-4639	91
MacWarehouse	(800) 981-9192	2.3
MacWarehouse	(800) 981-9192	4.5
MacZone	(800) 304-0286	82.83
Marathon Computer, Inc.	(800) 832-6326	89
MarWare, Inc.	(954) 927-6031	90
MegaMacs	(918) 664-MEGA	92
MicroMat Computer Services	(800) 829-6227	C3
Microsoft	(425) 882-8080	C4
Netalog	(919) 382-3227	89
Other World Computing	(800) 275-4576	78.81
Power Max	(800) 613-2072	77
PowerOn Computer Services	(800) 673-6227	92, 93
RAMJET, Inc.	(800) 831-4569	90
SoWhatSoftware	(800) 307-0663	88
Stone Design Corporation	(505) 345-4800	92
United On Line / Juno	(877) try-juno	11

Ill the Mac Exper

REPUREISHED COMPUTERS

Units are factory refurbished with a one year Apple warranty. Buy AppleCare and get a three year warranty and much more

els comes with Apple's full-year warranty!

The same of the sa	
iMac® G3/500 CR	T, 64 MB RAM, 20 Gb HD, CD-ROM, 56K\$599
iMac G3/600 CRT	, 128 MB RAM, 40 Gb HD, CD-ROM, 56K
iMac G4/700 15"	LCD, 128 MB RAM, 40 Gb HD, CD-RW, 56K\$999
iMac G4/700 15"	LCD, 256 MB RAM, 40 Gb HD, ComboDrive, 56K \$1049
iMac G4/700 15"	LCD, 256 MB RAM, 60 Gb HD, SuperDrive, 56K\$1269
Mac G4/800 17"	LCD, 256 MB RAM, 80 Gb HD, SuperDrive, 56K\$1549

PowerBook® G4/667, 512 RAM, 30 Gb, ComboDrive \$1949 PowerBook® G4/800, 512 RAM, 40 Gb, ComboDrive .\$1999

Receive a free Kryptonite® security cable with every new or returb laptop!

PowerMac* G4/933 MHz, 256MB RAM, PowerMac G4/Dual 1-GHz, 256MB RAM. PowerMac G4/Dual 1.25-GHz, "Mirrored Door" 512MB eMac" G4/700, 128MB RAM, 40 Gb HD, CD

eMac G4/700, 128MB RAM, 40 Gb HD, Combo Drive . \$849 New 15" Apple® LCD Display - Just \$388.

> Be sure to ask us about the complete line of Apple displays, including the new 20" Cinema Display!



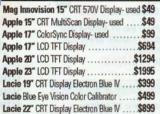
Ask us about: **Apple** Financing!



SUPER

LOW-

PRICED





It's true! PowerMax has an extensive line-up of quality, pre-tested used Macs -- all with

a 90-day warranty.

Order Online or Call One

of Our Mac

PACKAGE Wow! A Great System For Minimal Buckst Includes a Factory Returbished eMac G4/700, Epson C60 Color Printer Package and Epson 1250 Scanner!

> Only \$849 Get A Free Shuttle Pro with Final Cut Pro 3.0 Purchase!

\$995 Buy any New Mac and get MS Office for OSX for only





WWW.POWERMAX.COM

Daily specials & blowouts . Bargain Basement Deals . New, used & refurb lists

Looking to trade-in your old Mac?

Huge Allotment of New Custom-

Configured PowerBooks in Stock!

PowerBook® G4/667, 512 RAM, 30 Gb, ComboDrive

PowerBook® G4/667, 512 RAM, 40 Gt

PowerBook® G4/800, 1024 RAM, 40 GB

And Many More!

ComboDrive, Airport Card...

We'll take your Mac OS computer in trade toward the purchase of new product Call one of our expert Mac



Select iMac Purchases!

pricing!

Get TONS of Free Stuff When You Buy A New G4 **Power Mac!**

Buy an iBook, Get a Free **Carrying Case** and a Free



GFT THE MAC YOU'VE ALWAYS WANTED!

This amazing, hand-held microscope captures images on your computer screen at 10X, 50X, 100X, even 200X magnification! A great tool for industrial, law enforcement and educational

DIGITAL USB MICROSCOPE Only \$199! (Mac or PC)

STORAGE SOLUTIONS



larger capacities, increased transfer rates and greater mobility! Authoring Software\$379

120GB 7200 RPM FireWire D2 Hard Drive \$259 200GB 7200 RPM FireWire ...\$399 D2 Hard Drive 400GB 7200 RPM FireWire Big Disc Hard Drive ... \$769 DVD-RW D2 FireWire w/ Mac

We Carry a Huge Selection Of Hard Drives, CD-Burners and

Local: (503) 624-1827 • Fax: (503) 624-1635

email: sales@powermax.com

Personal Financing · Fast P.O. Approvals · Business Leasing · Weekly specials on our web site

Are You A Member Of A User Group?

www.applemugstore.com

PowerMax is a division of Computer Stores NW, Corvallis, OR.

Macintosh User Group members enjoy access to a very special Apple- sponsored web site featuring super deals on the latest Apple products and more! If you are currently not a member of an Apple User Group and would like access to the MUG Store special offers, discounts, and resources, contact an Apple User Group near you to sign up.





There's virtually no difference between these machines and the brand-new ones. Each of these mod-

Always a great selection of Apple's finest portables!

PowerBook® G4/667, 256 RAM, 30 Gb, ComboDrive\$1799

iBook G3/900, 256MB RAM, 30 Gb HD, ComboDrive, 14.1" Screen\$1329

Epson C60 Bundle - Includes USB Cable, Print-

Master Software, Epson Ink Pen, Free black

DISPLAYS & PRINTERS

We've Got The

Now I acio

Electron Blue IV CRT Monitors.

Stellar Color, Clarity and Quality.

2048x1536 Maximum Resolution.

USED COMPUTERS

G3/266 MHz 320MB RAM, 4Gb HD, CD, Zio . . . \$469

PowerBook G3/233 MHz 160MBRAM, 2GbHD, CD \$619

iMac G3/350 MHz 64MB RAM, 7Gb HD, CD ... \$469

Tower G4/350 MHz 128MB RAM, 10Gb, CD ... \$688

iBook G3/500 MHz 192MB RAM, 10Gb, CD ... \$799

PwrBk G4/400 MHz 128MGB RAM, 20Gb DVD \$1639

Get a FREE Case Logic

Photo-Video Bag

With Any New

Digital Camera!

CAMERAS AND SOFTWARE

You'll be hard-pressed to find a better deal than

this on a genuine Apple® LCD display.

Apple Care: The best SUPER SPECIALS extended warranty

program in the industry: Ask Us Why!





. The 512 MB RAM

0

'no stinkin' rebate" Deal

FREE MYOB

FREE Enson

C42UX Printer

(after migr. rebates

Sound 2000

Speakers

VST FireWire

Hard Drives.

20GB only \$99

30GB only \$129

Free Koss KSC-50

Head-Phones!

With Any

New iPod

Purchase.

Displays

Now Only

\$119!

New Epson

USB Laser

Printer

\$239?

For Only

Desktop

2 Ports!

First Edge

Software

FREE Pro

\$2159

\$2468



Free Ram with Call for the latest

Kryptonite® Lock!





purposes

Used Blue & White Apple



Removable Media from All Major Manufacturers!



Prices subject to change without notice. Prices reflect cash discount. Credit card orders strictly verified against fraudulent use. With use of credit card as payment customer acknowledges that Knowledge is Power Prices subject to final sale. Many prices are limited to stock on hand. All brand or product names are registered trademarks of their respective holders.



Other World Computing Serving the Mac Universe since 1988

800.275.4576

Excellent Service

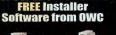
Competitive Prices

Quality Products

Expert Tech Staff

Fridays 8:30am - 6PM, Saturdays 10am-4pm CST. **OS X ON LEGACY MACS!**

Representatives available Mon-Thurs 8:30am - 8pm,







eshop.macsales.com/osxcenter Have the Power of X on your Pre-Beige G3 PowerMac!

PowerBook G3 & iMac 233-333MHz

All PowerBook G3 Wallstreet (1998) & Lombard (1999/Bronze Keyboard); iMac G3/233-266-333MHz Models





Low Profile 256MB will install in lower memory slot of all listed models allowing a new max memory of up to 512MBs!

128MB PC100 CL2/PC66 SO-DIMM \$27.99 256MB PC100 CL2/PC66 SO-DIMM \$57.99 256MB " " Low Profile \$65.99

Legacy Macs

PowerMac 72/73/75/76/85/86/95/9600 & Clones









128MB Mac 5V DIMM ONLY \$27,99!

Get up to 512MB, 1GB, or MORE - 100% compatible with G3/G4 upgrades, great for memory starved applications & OS X too!

OWC Stocks Memory for just about EVERY Apple Mac/Clone made! Call our visit our website www.MacSales.com to get the right memory for your Mac!

3.5" SCSI drives

For any Mac tower / desktop model with built-in SCSI









9GB IBM UltraStar 36ES Low Profile only \$45.97! 7200RPM, 6.5ms, 1yr OWC Warranty

18.4GB IBM UltraStar 73LZX 10k RPM \$89.99 4.9ms, low profile, w/ 1yr

36.4GB IBM UltraStar 36LZX 10k RPM \$129.99 4.9ms, low profile, w/ 1yr

36.7GB Seagate Barracuda 7200 RPM \$229.99 8.5ms, low profile, w/ 3vr

73.4GB IBM UltraStar 73LZX 10k RPM \$239.99 4.9ms, low profile, w/ 1vr

ATA/IDE PCI cards

Have a PowerMac with an available PCI slot? Any of these will let you fully utilize IDE / ATA drives! All products listed support up to 4 IDE/ATA drives, made just for Mac, and are fully compatible/bootaable with Apple OS 8.x, 9.x, and OS X 10.x





SIIG Ultra133 **ATA/IDE \$79.97**





Sonnet Temp Trio PCI Combo \$179.99

More than Just an ATA Card, Trio also adds FireWire and USB 1.1/2.0 to your Mac all with ONE PCI Card!

Acard AHARD Mac ATA/133 PCI Interface \$89.99 Acard AHARD Mac ATA/133 RAID PCI dual channel \$169.99

OWC takes the guesswork out of upgrading

Need memory?

- Make your Mac run faster with a memory upgrade from OWC!
- Lifetime Advance Replacement Warranty
- · Fully meets or even exceeds Apple specs
- UPS/FedEx AIR Delivery from \$4

PowerMac G4 'Mirrored Door'

For PowerMac G4 'Mirrored Bay' Dual 867/1GHz/1.25GHz/1.42GHz, 1GHz, and all **Xserve Models**



PC2100 DDR 266MHz for Apple Power Mac G4 'Mirrored Door' 1GHz & Dual 867MHz; Xserve 1GHz and Dual 1GHz models 256MB \$34.99 512MB



PC2700 DDR 333MHz for Apple Power Mac G4 'Mirrored Door' 1GHz, Dual 867MHz / 1GHz / 1.25GHz / 1.42GHz; Xserve 1GHz / 1.33GHz, Dual 1GHz / 1.33GHz models 256MB\$39.99 512MB\$75.99

iMac G4/1GHz, PowerBook G4 12/17")



PC2100 DDR 266MHz SQ-DIMM for PowerBook G4 12', iMac G4/1GHz models 256MB .. \$37.95 512MB .. \$119.95

PC2700 DDR 333MHz SO-DIMM for all PowerBook G4 12" & 17", iMac G4/1GHz 256MB .. \$39.99 512MB .. \$149.99

Internal Mac Har

Solutions

- Higher capacity for today's storage needs
- When you upgrade / replace with a new drive, it's just more storage - you get more performance with today's faster drives too!



3.5" ATA/IDE drives

For any PowerMac G3 or G4 model; any PowerMac equipped with an add on PCI ATI controller (see below)

> 40GB Maxtor only \$79.99! 7200RPM, ATA/133, w/ 1yr

80GB IBM 180GXP only \$109.99! 7200RPM, 2MB Buffer, ATA/6, w/ 3yr

120GB IBM 180GXP only \$149.99! 7200RPM, 2MB Buffer, ATA/6, w/ 3yr

80GB Seagate Barracuda 7200RPM \$109.95 ATA/5, 2MB Buffer, w/ 1yr

180GB Western Digital 7200RPM \$239.99 ATA/6, 8MB Buffer, w/ 3yr

250GB Maxtor 7200RPM \$399.95 ATA/133, 8MB Buffer, w/ 3yr

Note: Above ATA Drives are fully compatible with all versions of vanilla ATA/IDE, ATA/33, ATA/66, ATA/100, ATA/133, EIDE, UDMA, Etc. Drives may be used with any Mac that has built in IDE/ATA or an added ATA/IDE controller (such as by SIIG, Acard, VST, or Sonnet).

se ATA Drives in ANY PCI PowerMac! Don't have IDE/ATA built in or want a faster ATA/133 interface? OWC has the answers!

Power Mac G4 AGP, iMac G3 350+, eMac

All PowerMac G4 Sawtooth / Graphics / Gigabit / Digital Audio/ Quick Silver I&II Models including Dual Processor Equipped; iMac G3/350-700MHz Models, All eMac G4 Models









128MB PC133 CL3 / PC100 CL2 SDRAM\$26.99 256MB PC133 CL3 / PC100 CL2 SDRAM\$38.99 512MB PC133 CL3 / PC100 CL2 SDRAM\$75.99

iBooks, PowerBook G3/G4, iMac G4

All iBooks, all iMac G4 15" Models, iMac G4 17" 800MHz, all PowerBook G4 15" Models(Titanium), PowerBook G3 FireWire(yr2000/aka Pismo)











128MB PC133 CL3/PC100 CL2/PC66 SO-DIMM \$27,99 256MB PC133 CL3/PC100 CL2/PC66 SO-DIMM \$39.99 512MB PC133 CL3/PC100 CL2/PC66 SO-DIMM \$79.99* 512MB PC133 CL3/PC100 CL2/PC66 SO-DIMM LP \$109.99

* This module is compatible with PowerBook G3 FireWire and listed iMac G4 Models ONLY.

PowerMac G3, G4 PCI

All PowerMac G3 Beige, G3 Blue & White, G4 PCI 'Yikes'







PC100 CL 2/PC66 SDRAM 128MB \$26.95

256MB \$34.99

2.5" ATA/IDE notebook drives

Your iBook or PowerBook can have up to 80GBs of storage inside!

20GB 4200RPM \$99.95!

Fujitsu MHS2020AT, 2MB Buffer, w/ 3yr

40GB 5400RPM \$159.99! IBM 40GNX, 8MB Buffer, w/ 3yr

60GB 4200RPM \$199.99!

Toshiba MK6021GAS, 2MB Buffer, w/ 3yr

Call or visit macsales.com for the full line of available 20GBs - 80GBs!

Mercury Express 2.5" Portable Kits

Not sure what to do with the drive in your PowerBook/iBook now? Stick it in an OWC Mercury Express USB and/or FireWire Enclsoure!



FireWire + USB 2.1/1/1 Combo \$69.95

- FireWire only \$49.95
- USB 2.0/1.1 only \$39.95

MA05-03

Other World Computing Fax: (815) 338-4332





OS X ON LEGACY MACS! : Installer Software from OWC



FireWire:

Excellent Service

Competitive Prices

Quality Products

Expert Tech Staff

eshop.macsales.com/osxcenter Have the Power of X on your Pre-Beige G3 PowerMac

Mercury Elite FireWire & USB

Top-Rated OWC Mercury Elite FireWire Solutions are ideal for today's high speed Storage, Audio/Video, and Backup needs! High Performance and Superior Reliability come in this Elegant solution by means of the best components coupled with the Oxford911 bridge solution with data rates exceeding 40 MEGABYTES PER SECOND!

MacAddict 'Droolworthy'

All OWC Mercury Elite solutions feature:

- · Cool Blue Activity Indicator LED
- · Super Quiet operation
- · 2 FireWire Ports
- 1 USB Port(USB Equipped Models Only)
- · Fully Suitable for Digital Audio/Video appliations
- · Large 2MB and 8MB Data Buffer
- · U.S./International 90-240v AutoSwitching

- FireWire Cable Included
- USB Cable Included (USB Models Only)
- · Intech HD Speedtools Included
- Compatible with ALL Apple OS Versions 8,5-9,2,x; Apple OS X 10.0.3 and higher (including 10.2)
- · Compatible with MicroSoft Windows 98SE, ME, 2000, XP and any OS that supports Firewire or USB (USB Models Only) storage devices.
- 2 Year Warranty



All OWC Mercury FireWire Hard Drives include Intech's SpeedTools Utility for Mar

FireWire USB 2.0/1.1 40GB 7200RPM 2MB \$159.99 \$179.95 60GB 7200RPM 2MB \$179.99 \$199.95 \$199.99 \$209.95 80GB 7200RPM 2MB 120GB 7200RPM 2MB \$239.99 \$259.95 120GB 7200RPM 8MB \$259.99 \$279.95 180GB 7200RPM 8MB \$339.99 \$369.95 200GB 7200RPM 8MB \$389.99 \$419.95 **CALL FOR MODELS 250GB AND HIGHER!**

MacAddict RATED

GREAT

Mercury On-The-Go FireWire & USB

The Mercury On-The-Go FireWire and FireWire+USB2 are the most compact high performance storage solutions available! So small as to fit in the palm of your hand and weighing in at less than 12 ounces, these drives give the maximum performance

possible utilizing the same Oxford911 bridge as our Elite Series. With data rates exceeding 30 MEGABYTES PER SECOND, this truly is high performance storage 'On-The-Go'!

Plug and Play compatible with Apple OS 8.6 - 9.2.2, OS X; WindowsSE, 2000, XP; Any OS with FireWire Support.

Drive may be powered by FireWire Bus or with included power adapter.

Key Features:

Shock Isolation System protects drive; Cool Blue LED Activity Indicator; Near Silent Operation; Large 2MB or 8MB Data Buffer; Bus Powered or with included AC Adapter; All Cables, Carrying Case; Intech SpeedTools included. FireWire FW + USB 2.0/1.1

\$169.97	\$189.97
\$189.97	\$199.97
\$199.97	\$219.97
\$219.97	\$239.97
\$249.97	\$259.97
\$299.97	\$319.97
80GB \$C	ALL!
	\$189.97 \$199.97 \$219.97 \$249.97 \$299.97

James Coates of the Chicago Tribune:

"Mac users likely will just break into smiles when they plug this high speed hard drive into the FireWire ports on their machines."

MyMac.com review 5 out of 5

Charles Carr from Computor Edge about buying an OWC Mercury drive: "You'll probably be happy you did." 4 out of 5. "The Elite is ideal for professionals and consumers who need convenient, portable storage for large amounts of data.

OWC Mercury CD-R & CD-RW / DVD-R & DVD-RW FireWire + USB 2.0/1.1 Solutions

Burn your own CDs and DVDs for Backup, Data, Movies, Music, Presentations, and MORE! For both FireWire and USB equipped computers, we have the high speed solutions your looking for! All Mercury CD and DVD FireWire and FireWire+USB2/1.1 utilize a custom Oxford911 bridge and the best in optical drive technology to insure the best performance and reliability that translates to no wasted media turned coasters.

All solutions feature 1yr warranty US/International Switching Power Supply, 2 FireWire Ports, FireWire Cable, 25 Pack of 80 Minute CD-R Media, full compatibility with Apple OS 8.6 - 9.2.x & OS X. Also compatible with any OS supporting USB or FireWire storage. All CD Solutions include Roxio Toast Lite 5.1.x. All DVD Solutions include CharisMac Discribe 5.x and 5 Pieces of 2X Certified DVD-R Media.

CD-R/RW External Solutions:

Compatible with Apple iTunes, Disc Burner, Roxio Toast, Discribe, Nero, and just about any Windows CD Authoring/Player software FireWire

Mercury 52x24x52x CD-R/RW with 2MB Buffer & SmartBurn Technology \$139.99 \$159.95 Mercury 52x24x52x CD-R/RW with 8MB Buffer & BurnProof Technology \$159.99 \$179.95

DVD-R/RW & CD-R/RW 'SuperDrive' Solutions:

Compatible with Apple DVD Studio Pro, Apple iTunes, Roxio Toast, CharisMac Discribe, and just about any Windows CD/DVD Authoring or Player software.

Mercury DVR-105 Pioneer 4X DVD-R/2X & DVD-RW/16X & CD-R(W)/8X 'SuperDrive'

OWC also stocks FireWire and USB Storage Solutions from Lacie and Ezquest. Call or visit http://www.MacSales.com for all of the latest products offered by OWC

FireWire & USB add-on card from only \$19.99! Connect to thousands of new USB and FireWire Products!

FEATURE PRODUCT

MacAlly \$79.95 2-port FW & 2-port USB 2.0/1.1 PCI Card

Save a slot and add the latest USB 2.0+1.1 and FireWire support to any Mac with a PCI Slot! Compatible with Apple OS 8.6-9.2.x, OS X.



MacAlly 2-port USB 1.1 PCI Card \$24.95

Add USB to ANY Mac with a PCI slot, Plug and Play compatible with Apple OS 8.5.1 - 9.2.x and OS X

Century 2-port PCMCIA

Add FireWire to any PowerBook G3 WallStreet or Lombard Model. Plug and Play compatible with OS 8.6-9.2.x, Apple OS X.

FireWire Card \$29.97

FireWire and/or USB lets you connect to the Apple iPod, Digital Cameras, Digital Camcorders, CD/DVD Burners, Hard Drive Storage, Keyboards, Mice, Scanners, Printers, and MUCH MORE! If your computer didn't come with one of these interfaces, they are easy to add so you too can plug and play USB & FireWire devices!





FireWire

\$379.99



SPECIAL!

MacAlly \$19.99 3-port FireWire PCI Card

Add FireWire to ANY Mac with a PCI Stotl Plug and Play compatible with Apple OS 8.6 -



PowerLogix RapidFire 2 Port USB 3 Port FireWire PCI Card \$59.95

MW05-03

Other World Computing

Other World Comput

ational: (815) 338-8685

1004 Courtaulds Dr., Woodstock, IL 60098



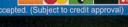
USB 1.0 /2.0

FireWire -

USB 1.0 /2.0

\$399.99

Support





Other World Computing Serving the Mac Universe since 1988

800.275.4576

Excellent Service

Competitive Prices Quality Products

Expert Tech Staff



OS X ON LEGACY MACS! Software from OWC







FasterMac.NET Nationwide 56K v.90/92 Internet Access JUST for Macs from only \$9.92 Per MONTH! All accounts include up to 5 free 'yourchoice'@FasterMac.net e-mail addresses, 5MB of personal WebSpace, and 150 hours of access. Call or Visit www.FasterMac.net for information or to sign-up today!

OWC Laptop Screen Protectors

Protect your investment!

OWC Laptop Screen Protectors PREVENT marks on your PowerBook LCD Screen! FREE iKlear Apple Polish included for a 'Klean Start!'

LSP WallStreet, Lombard, Pismo \$14.99



LSP - PowerBook G4 **15" 'Titanium' \$15.99**



LSP for all iBooks. PowerBook G4 12" \$13.95





Made in the USA of top quality, glove soft leather, OWC LSPs are both a durable and attractive solution to a known problem.

PowerBook Accessories



Roadtools Podium CoolPad \$29.95

For PowerBook, iBook, ANY-Laptop! Available in Black or White



Roadtools Traveler CoolPad \$19.95

For PowerBook, iBook, For PowerBook, iBook, ANY-Laptop! Available in Black or White. Rotates 360 degrees with ease.







OWC Mobility Bundle #4 for G4 PB \$54.95

Includes TiG4 LSP, LapBottom, and RoadTools Podium(black) - Save 25%!







OWC Mobility Bundle #6 for iBook \$49.95

OWC Apple 7 in 1 Bit Kit \$7.95

Just what you need for installing memory or a hard drive and more for Apple Desktops, PowerBooks, iBooks/More





- Reader + 128MB SmartMedia Bundle \$65!
- Reader + 256MB SmartMedia Bundle \$95!

Connects to your Mac via USB and lets you read/write Compact Flash, Smart Media, Memory Stick, SD Memory, MultiMedia Card, and Microdrive!



OWC PowerBook G4 CD+R/RW & DVD-ROM Internal Drive \$279.99

OWC PowerBook G4 CD+R/RW & DVD+R/RW Internal Drive \$449.99

Take out existing PowerBook G4/400-500-550-667MHz CD-Rom or DVD-Rom Drive and upgrade to a faster drive that can BURN! New kit 100% compatible with all hardware/software, plug and play. 1 Year OWC Warranty.

Mac Audio & Video

M-Audio Audiophile 2496 PCI Card \$148.99



Uncompromising quality for Audio Input and output for serious Audio work on your Mac!

Full 24 Bit/96khz 4 Port Audio In and Outs provide for MultiTrack recording, MIDI Recording and Playback, Home Theater &



M-Audio Sonica 24-bit Dolby Digital 5.1 /DTS/Dolby Pro-Logic Upgrades \$79.00

Plug and Play USB device that lets your Mac go all the way with Output/Playback!

Keyboards and Mice







IOptNet and iOptNet Jr. OPtical Scrolling Mice -5 color covers included

MacAlly iOptiNet 3 Button USB \$31.99 MacAlly iOptiNet Jr. 3 button USB \$27.99

Same as lOptNet, but ideal for travel or smaller hands!

Mac PowerBook Batteries



Apple PowerBook G3 Lombard (yr '99) / Pismo (yr '00) \$149.99

Mac PRAM Batteries



3.6V PRAM Replacement Battery \$5.99 High-Capacity 3.6V Lithium Cell



4.5V PRAM Replacement Battery \$7.99 Standard Rayovac 4.5V Computer Pram Battery

GriffinTech 'Cool Goodies'



Griffin PowerMate USB \$44.95 Rotary Audio Controller and morel



Griffin iMic USB MicroPhone Adapter \$36.97

Griffin iMate USB to ADB Adapter \$38.95 Use your ADB devices via USB!

PowerBook Carrying Cases



OWC TiG4 Carrying Case \$29.95



Representatives available Mon-Thurs 8:30am - 8pm. Fridays 8:30am - 6PM, Saturdays 10am-4pm CST.





eshop macsales.com/osxce

Other World Computing Serving the Mac Universe since 1988

800.275.4576

Excellent Service

Expert Tech Staff

Other World Computing is the Mac upgrade expert! We stock the FASTEST G3 / G4 upgrades, video cards, and MORE! Let us make your Mac a FASTER Mac!

AGP Processor Upgrades







PowerForce Dual GA

PowerForce Series 233

G4/1.2GHz 2MB L3 upgrade \$599.99 G4/1.0GHz 2MB L3 upgrade \$489.99 G4/800MHz 2MB L3 upgrade \$327.99

PowerForce Dual G4

G4 800/867MHz w/ 2MB L3 \$739.99 G4 1GHz w/ 2MB L3 \$879.99 G4 1.2 - 1.33GHz w/ 2MB L3 \$1089.99

\$233 G4 upgrades are compatible with all AGP Equipped Power Mac G4 and G4 Cube Models*, PowerLogix also makes Dual Processor upgrades for the Power Mac Series with performance comparative even to Apple's NEWEST Dual G4 Macs! All PowerLogix upgrades include a 2 Year Warranty.

*Installation Kit required for G4 CUBE ONLY \$12.99

New PowerMac G4 performance for a lot less than a new PowerMac G4. Make the Mac you have now a much faster Mac with upgrades from OWC



G4 Cube

G4 AGP Graphics/Sawtooth



QuickSilver I



Digital Audio



QuickSilver II



G4/1.0 GHz 2MB L3 \$479.99 G4/800MHz 2MB L3 \$299.99

G-Accelerator G4 Upgrades are compatible with all AGP equipped G4 Models. A great design with a factory installed heat sink make Installing this upgrade snap. And once you've snapped it in, it's just like you bought a new computer! All GigaDesigns upgrades include a 3yr Warranty.





Crescendo/ST

G4/1.2GHz 2MB DDR L3 \$649.99 G4/1.0GHz 2MB DDR L3 \$549.99 G4/800MHz 2MB DDR L3 \$339.95

Crescendo/ST G4 Upgrades are compatible with all AGP Equipped Power Mac G4 and G4 Cube Models*. Sonnet is well known for their quality products and support with the Crescendo/ST being just one more example! Plug and Play for new Mac Speed!

*Crescendo Installation Kit required for G4 CUBE ONLY -



- · 100% Hardware/Software Just plug, play, and go!
- · See real world benchmarks at www.macsales.com/upgrades

PowerBook Processor Upgrades

NuPower Pismo G4/500MHz \$299.95 newertechnology





NewerTech is BACK! Back with newer and FASTER upgrades for you Mac! Give your PowerBook G3 FireWire (aka vr2000/Pismo) G4 Power! Have the full capabilities of the Altivec engine at your disposal providing a night an day difference in performance for all Altivec enhanced applications as well as OS X at largel

Crescendo WS G4/500MHz with 1MB 2:1 \$395.99





MW05-03

Upgrade your Wallstreet I/II G3 PowerBook (any speed) to the power of a G4/500MHz with Altivec! A big boost for OS X, OS 9 and all your applications. As an added bonus, you can also have up to 512MBs of memory now too!

OWC Mercury ZIF Upgrades





G4/450MHz with 2:1 1024k L2 cache \$189,94 G4/500MHz with 2:1 1024k L2 cache \$259.94 G4/550MHz with 2.5:1 1024k I 2 cache \$329.94

Upgrades for PowerMac G3 Beige, G3 Blue & White, G4 'Yikes' PCI. High Quality, High-Performance, High-Reliablity, OWC uses ONLY processors rated for the speed advertised, if not faster!



See all the upgrades we have for your specific Mac with the MyOWC Compatibility Gulde:

http://eshop.macsales.com/MyOWC/index.cfm

ATI Video Cards



Radeon 9000 Mac 64MB DDR AGP Card \$167.99



Get more from your AGP equipped PowerMac G4 and unleash its Video potential with the ATI Radeon 8500 MacEdition! Compatible with any PowerMac G4 that has an AGP slot, this upgrade provides superior 2D/3D display acceleration for high performance gaming and video applications. A great upgrade for Apple OS 10.2 Quartz Xtreme video acceleration too - which requires 32MB V-RAM MINIMUM!



Radeon 7000 Mac 32MB DDR PCI Card \$119.99

Unleash the power of your PowerMac - Don't let video slow you down anymore! Highly Accelerated 2D/3D . The fastest Mac PCI video card made! . Open GL Support (Quake Tests up to 50 FPSI) · Full Quicktime Support · S-Video & Composite for TV/NTSC output · Full DVD Playback supported · Resolutions from 640x480 to 2048x1536 supported! • Features Standard VGA and DVI display connectors -Use any standard display or any digital/analog LCD! · Supports Apple OS 9 and OS X

\$\$\$ for your Old G3/G4 Processor! Only OWC Buys Back existing Processor after you upgrade - Call or Visit www.FasterMacs.com

G3 & G4 PCI Upgrades

(@NN@)

Upgrade your PowerMac 73/75/76/85/86/95/9600; UMax S900/J700; PowerComputing PowerCenter/PowerTower/PowerWave to a faster G3 or G4 Processor today! A 2nd Life for your still VERY capable and potentially VERY powerful, trusty Maci Fully compatible with all software and hardware; supports Apple OS 8.6 - 9.2.2, OS X 10.1 and higher. Note: These upgrades replace your existing processor dauthercard, they do NOT take up a precious PCI slot!

Crescendo G3/400MHz 512k L2 only \$99.95! Crescendo G3/450MHz 1MB L2 only \$139,95!

Crescendo G3/500MHz 1MB L2 \$179.95 Crescendo G4/700MHz 1MB L3 \$297.99 Crescendo G4/800MHz 1MB L3 \$395.99

Competitive Prices Quality Products

Other World Computing

New to 1.42GHz

Just Announced! NEW



NEW Apple PowerBooks

Less is More, AND More is More

NEW! 12" Apple PowerBook G4

- Smallest, most affordable full-featured notebook
- High-resolution, 1024 x 768 TFT
- Lightweight durable aluminum alloy enclosure
- Slot-loading DVD/CD-RW drive
- 32MB nVIDIA GeForce4 420 Go graphics card
- Bluetooth built in, AirPort Extreme ready
- VGA, S-Video and composite video output
- Weighs only 4.6 pounds

NEW! 17" Apple PowerBook G4

- The first notebook ever with a 17" TFT: 1440 x 900
- Backlit keyboard with ambient light sensors
- # Lightweight durable aluminum alloy enclosure
- Slot-loading SuperDrive DVD-R/CD-RW
- # 64MB NVIDIA GeForce4 440 Go graphics card
- Bluetooth and 54 Mbps AirPort Extreme built in
- NEW 800 Mbps FireWire and connections galore
- Weighs only 6.8 pounds

PowerBook offers TFT Megawide Screen Active **华是仅是全国市山東西西**

Apple Instant \$2 Loan starting at only

#168154 AppleCare 3-Year Protection Plan - PowerBook G4. . . \$349.99

867_{MHz} G4

- 12" TFT Display 256MB DDR Memory
- **40GB Hard Drive**
- Combo DVD-ROM/CD-RW
- NVIDIA GeForce4 420 with 32MB DDR SDRAM

#169635

867_{MHz} G4

- 15.2" TFT 256MB Memory
- 40GB Hard Drive
- Combo DVD/CD-RW
- AirPort Card Ready
- ATI Mobility Radeon 9000 with 32MB DDR SDRAM 198

#159229

GHz G4 15.2" TFT Display

- 512MB Memory **60GB Hard Drive**
- SuperDrive DVD-R/CD-RW
- AirPort Card Included ATI Mobility Radeon 9000 with 64MB DDR SDRAM

9498

#159230

GHz G4

- 17" TFT Display 512MB DDR Memory
- **60GB Hard Drive**
- SuperDrive DVD-R/CD-RW
- AirPort Extreme Included
- **NVIDIA GeForce4 440** with 64MB DDR SDRAM

#169634



NEW Apple iBook G3

Faster and more affordable than ever!

Price Drops up to \$300 on iBooks! hile supplies last! Call for details

700мHz G3

- 12.1" TFT Display
- 128MB Memory 20GB Hard Drive
- CD-ROM Drive
- ATI Mobility Radeon 7500 with 16MB VRAM

#159224

Apple Instant S
Loan starting at only

800_{MHz} G3

- 12.1" TFT Display
- 128MB Memory
- 30GB Hard Drive
- Combo DVD/CD-RW Drive
- ATI Mobility Radeon 7500 with 32MB VRAM

#159225

Edit video

like a pro!

Final Cut

Express

14.1" TFT Display 256MB Memory

800_{MHz} G3

30GB Hard Drive

Combo DVD/CD-RW Drive ATI Mobility Radeon 7500 with 32MB VRAM

#159226

#168153 AppleCare 3-Year Protection Plan - iBook G3 \$249.99

Mac Zone is Your Single Source for the Latest Hardware & Software Products!

Get Mac OS X for only \$30!* MYOB FirstEdge



FirstEdge

\$**QQ**99 #150229

*Get Mac OS X for \$30 with pur-chase of MYOB FirstEdge. Offer good while supplies last. Visit www.maczone.com for details. Ask for item #174652. \$129.99.

Ideal for digital photography hp Deskjet 5550 **Color Printer**

#980152 *After \$25 mfr. mail-in rebate. Low Mac Zone price \$149.98. Offer good through 4/30/03. Super capacity and speed

LaCie 120GB 7200 RPM FireWire Hard Drive

#154800 #1013991 LaCie 200GB d2 \$399.99

FREE Tripod and Carrying Case!* Canon ZR60

Digital Camcorder #175366

with camcorder. While supplies last

· Jam

#169640 FREE 5-Pack of CD-R **Roxio Toast**

#141946

with Jam

Make sure you get all of TurboTax® Deluxe

2002 for Mac

your deductions

Buy TurboTax Deluxe and Quicken 2003 together for just ³7



Easy financial management Quicken 2003 **Deluxe for Mac**

#158947



Don't forget your AppleCare

AppleCare

Starting at \$16999 - Call for details.

† After \$30 mfr. mail-in rebate Low Mac Zone price: \$109.94. Offer good through 4/15/03.



Credit cards are not charged until the order is shipped. Most products ship the same day (barring system failure, etc.). Shipping options include Ground, 2nd Day and Overnight delivery. Freight is based on average product weight. Handling extra. Insurance available. Special orders may require special shipping and handling charges. Call for international shipping rates. Prices and product availability subject to change without notice. Specials and promotions may be limited to stock on hand. Not responsible for typographical errors. All products sold by Zones, Inc. are third party products and are subject to the warranties & representations of the applicable manufacturers. "2003 Zones, Inc. All rights reserved. Unauthorized duplication is a violation of applicable laws. Apple, the Apple logo, Mac, Power & PowerBook, IMac, IBook, AirPort, and FireWire are trademarks of Apple Computer, Inc., registered in the U.S. and other countries. SuperDrive, IPOd and eMac are trademarks of Apple Computer, Inc. PowerPC is a trademark of International Business Machines Corporation, used under license therefrom.

Power Mac G4s iMacs – up to 1GHz



Mac Zone Exclusives!

Harman Kardon iSub Subwoofer

#173489



MYOB FirstEdge with purchase of Mac OS X #174652



Authorized Reseller

See bottom of page for details

Microsoft® Office v. X Full Version with any Apple CPU purchase.

ONLY





PLUS, up to \$1500 PRICE DROPS!

WAS NOW Price Drop #139208 Apple 17" Studio Flat Panel \$699.98 \$999.98 \$300.00 #147870 Apple 23" Cinema Display HD \$3494.98 \$1999 98 \$1500.00

(0) Now Shipping! Up to 512MB

.25 GHz Dual G4

L3 Cache - 1MB DDR SRAM

NEW! Apple Power Macs

Just Announced!

New Apple Power

to \$800

Macs Up to 1.42GHz!

Price Drops up

While supplies last! Call for details

1.42 GHz Dual G4

512MB DDR SDRAM

120GB Hard Drive

L3 Cache - 2MB DDR SRAM

SuperDrive DVD-R/CD-RW

ATI Radeon 9000 Pro with 64MB of DDR SDRAM

694⁹⁸

- 256MB DDR SDRAM **80GR Hard Drive**
- Combo DVD-ROM/CD-RW
- ATI Radeon 9000 Pro with 64MB of DDR SDRAM

#165459

#165460

Apple Instant \$ Loan starting at only

#165458

GHz G4 • L3 Cache - 1MB DDR SRAM

256MR DDR SDRAM

Combo DVD-ROM/CD-RW

NVIDIA GeForce4 MX with 64MB of DDR SDRAM

49498

60GB Hard Drive

#168151 AppleCare 3-Year Protection

Plan - Power Mac G4. . . . \$249.99

Up To 512MB Memory

NEW! **Apple** iMac G4

Just Announced! **NEW iMacs** up to 1GHz!

800_{MHz} G4

- 15" TFT Display 256MB Memory
- 60GB UATA/66 Hard Drive
- 32X Combo DVD/CD-RW drive
- 2 FireWire / 5 USB
- 32MB NVIDIA GeForce2 MX

#165464

GHz G4

- 17" Widescreen LCD
- 256MB Memory
- 80GB UATA/100 Hard Drive 4X SuperDrive DVD-R/CD-RW
- 2 FireWire / 5 USB
- 64MB NVIDIA GeForce4 MX

#165465

NEW Apple Xserve RAID

The best value in external RAID storage just over \$4/gigabyte!



#165470 Xserve RAID - 720 Gigabytes . . \$5994.98 #165471 Xserve RAID - 1.26 Terabytes . . \$7494.98 #165472 Xserve RAID - 2.52 Terabytes. \$10,994.98

Apple Instant 5 Loan starting at only

Stock!

AppleCare 3-Year Protection Plan - iMac G4. \$169.99

Thousands of Mac Products Available! Call or Visit us at maczone.com!

NEW! 54 Mbps Wireless Performance

- 5 times faster Apple AirPort Extreme Base

\$198⁹⁹

Top Selling Database*



*NPD Intellect 10/02. **Requires FM Pro 5.x. *Requires FM Pro 5.5v2/6. #154723 FileMaker Pro 6 - Full Version \$269.98

#161375 FileMaker Mobile 2.1 (for Handhelds)‡ \$46.99

QuickBooks Pro 5.0 for Mac #159490 *After \$120 mfr. mail-

FREE 5-Pack CD/RW!

in upgrade rebate. Offer good through 12/31/03.



Less than 30¢ per disc Fuii 24X 700MB CD-R 100-Pack

#141962



Station

Professionals' image editor of choice Adobe® Photoshop® 7

#141955

Quality you can feel - and see

Canon EOS-1D 4.1MP Digital SLR Camera Lens not included.

999⁹⁹ #150589 #187004 Canon EOS-10D Digital Camera . . NEW! \$1498.99



The Latest iApps! iMovie 3, iPhoto 2, iDVD 3, iTunes 3 iLife Suite

> \$48⁹⁹ #169641



NEW LOW PRICE! SmartDisk DVD-R 5-Pack \$**Q**99

#979262

Microsoft Office v. X Offer: Get Microsoft Office v. X for only \$199 with select Apple CPU purchase. Items must appear on same invoi Regular low Mac Zone price: \$437.99. Offer good through 4/7/03.

MYOB FirstEdge Offer: FREE MYOB FirstEdge with purchase of Mac OS X and after Mac Zone rebate. Low Mac Zone price: \$129.99. Offer good while supplies last.

ory Offer: Up to 512MB FREE memory with select Apple computers and rofessional \$40 installation purchase. \$12MB memory offers require mail-in rebates.

Allow up to one day for installation. Offer subject to change due to memory price volatility.

Call for latest offers. Offer good while supplies last. Not valid with any other Mac Zone offers.

Corporate bids welcome!

A NASDAQ® COMPANY Ticker Symbol: ZONS

Source Code **MA053**

Order 1-800-304-0286



FREE from MacMall!



512MB RAM
FREE! (Up to a \$300
Available with purchase of select
Apple* computer models.



FREE MYOB FirstEdge!"

With any Apple computer purchase. While supplies last. #638065



Office Romance! Save \$300!"

Save \$300!"

Purchase any Mac & get Microsoft
Office v .X for only \$188.99! See
below for details. #660562

Hurry! Last chance! Expires 4/7/03



FREE USB Floppy Drive!"

With select iMac or eMac purchase. See below for details. #117660



FREE Targus
Carrying Case!

With any 12.1" PowerBook or iBook purchase. While supplies last. #780029

20GB Apple iPod!

with Protective Carrying Case

\$4941



Also available for Windows!

10GB Apple iPod with Carrying Case

*3**94**

12.1" PowerBook G4 Series

#116413 867MHz G4/12.1"/256MB Total/Combo \$1,794*

#116411 867MHz G4/12.1"/256MB Total/SuperDrive \$1,994*

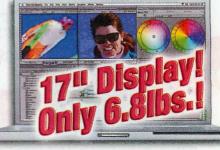
New models from A speeds and revolution

NEW! 17" widescreen 1GHz PowerBook G4!

he megawide screen is the first thing you'll notice about the world's first notebook computer with a 17" display. When open, it's vast. This breathtaking display offers the same viewing area as a 19" CRT monitor. It supports a resolution of 1440 x 900 pixels—with room aplenty for all of your menus, toolbars and palettes.

Revolutionary design!

- Up to 1GHz PowerPC G4 processor
- ▶ Up to 512MB SDRAM ▶ Up to 60GB hard drive
- ▶ Features Combo drive (DVD/CD-RW) or SuperDrive (DVD-R/CD-RW) ▶ Up to 17" widescreen active-matrix display ▶ ATI Mobility Radeon 9000 with up to 64MB of DDR SDRAM or NVIDIA GeForce4 440 Go ▶ Built-in Bluetooth 1.1 and built-in AirPort® Extreme Card (17" model only)
 - Built-in 10/100BT or 10/100/1000BT
 - Unique fiber optic backlit keyboard with laser-etched keys ■ 1 FireWire® 400, 1 FireWire 800 and 2 USB Ports



NEW! 17" widescreen PowerBook G4 only FREE 512MB Extra RAM!

\$3,294!

Apple PowerBook G4 Series

The most compact, full-featured Mac!

The 12.1" PowerBook® G4 is smaller than the iBook and even smaller than the PowerBook Duo and yet it features a slot-loading Combo drive

or SuperDrive housed in a durable aluminum alloy enclosure weighing just 4.6 pounds!

▶ 867MHz PowerPC G4 processor

40 Tue 2:50 PM

- ▶ 12.1" TFT XGA active-matrix display
- ▶ 256MB SDRAM ▶ 40GB hard disk drive
- ▶ Combo drive (DVD-ROM/CD-RW) or SuperDrive
- NVIDIA GeForce4 420 Go with 32MB of DDR SDRAM
 - One FireWire® 400
 and two USB Ports
 - Built-in Bluetooth
 - AirPort Extreme ready
 - Lithium-ion battery with up to 5 hours of battery life



Authorized Reseller

The compact 12.1"
PowerBook G4 is the smallest portable that Apple has ever created!

12.1" PowerBook G4 starting at FREE AirPort Extreme Card!

没多个自由力系普遍

\$1,794!

ple with faster iry display sizes!

What's New in the New Power Mac G4?

Dual 1.42GHz PowerPC G4, FireWire® 800, AirPort Extreme at 54mbps and off the chart graphics!

Rips through digital video and 3D projects! SuperDrive (DVD-R/CD-RW) or Combo (DVD-

The new Power Mac® G4 combines rock solid engineering reflective of the full-throttle Xserve® architecture with new technologies for massively enhanced output and connectivity.

Built-to-order to fit any use!

You can fill the Apple Power Mac G4 with up to 2GB of high-speed DDR SDRAM, get it with a 4X SuperDrive that's twice as fast at burning DVDs, four internal hard drives up to 720GB, get unwired with an AirPort Extreme Card and add scorchingly fast graphics.

- Up to dual 1.42GHz PowerPC G4
- Up to 2MB DDR SRAM per processor
- Up to 512MB PC2700 333MHz DDR SDRAM
- Up to 120GB Ultra ATA/100: 7200RPM

Apple Power Macintosh Series #131028 1GHz DP G4/768MB Total*/Combo

ROM/CD-RW) Dup to 167MHz bus system

FREE 512MB Extra RAM!*

New! Power Mac G4

starting at

\$1.494 #131033 1.25GHz DP G4/768MB Total*/Combo \$1,994

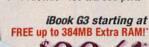
#131037 1.42GHz DP G4/1GB Total*/SuperDrive \$2,694



Display and speakers each sold separately.

Makes a powerful impact!

- Up to 800MHz PowerPC™ G3 processor
- Features screen sizes up to a 14.1"
- Up to 256MB of PC100 SDRAM ▶ Up to 30GB
- 24X CD-ROM or DVD-ROM/CD-RW Combo Drive
 - ▶ 1 FireWire® 400 & 2 USB ports



Apple iBook Series

#764345 700MHz G3/12.1"/384MB Total*/CD-ROM #764346 800MHz G3/12.1"/384MB Total*/Combo #766964 800MHz G3/14.1"/640MB Total*/Combo

Up to \$200 PRICE DROP on eMac!

- 700MHz or 800MHz PowerPC™ G4 processor
- Up to 256MB SDRAM ▶ Up to 60GB hard drive
- Combo drive (DVD-ROM/CD-RW) or SuperDrive™ (DVD-R/CD-RW) 2 FireWire 400 & 2 USB ports
 - ▶ 56K ▶ 10/100BT
 - Mac OS X and Mac OS 9 eMac G4 starting at FREE 256MB Extra RAM!

Apple eMac G4 and iMac G3

17 inch

display!

#590884	700MHz eMac G4/384MB Total*/Combo	\$994
#590886	800MHz eMac G4/512MB Total*/SuperDrive	\$1,294
#552071	600MHz iMac G3/256MB Total*/24X CD-ROM	\$794

New Apple iMac G4—up to 1GHz!

- 800MHz or 1GHz PowerPC™ G4 processor
- Up to 256MB of SDRAM ▶ Up to 80GB HD
- Combo drive (DVD-ROM/CD-RW) or SuperDrive™ (DVD-R/CD-RW) 2 FireWire 400 & 5 USB ports
 - 17" viewable widescreen TFT active-matrix display iMac G4 starting at

FREE 512MB Extra RAM!

Apple iMac G4 Series

#132754 800MHz G4/15"/768MB Total*/Combo Drive \$1,294* #132760 1GHz G4/17"/768MB Total*/SuperDrive \$1.794

New from Apple!

AirPort Extreme AirPort Extreme Base Station with Modem only \$249" #114811 AirPort Extreme Base Station without Modem only \$194" #114796

New from Apple! AirPort Extreme Card Up to five

times faster than before only \$9594 #114792



New from Apple!

Keynote Easily create truly stunning presentations! only **\$94**94 #114793

New from Apple! Final Cut **Express** the pros!

Adobe[®] Design Collection 6.0 with FREE **Total Training**

for InDesign 2.0 only



Δ

hp laserjet 1200se Printer only

7899 #958348 Call for details.



Norton AntiVirus/ QuickBooks Pro 5.0 Intuit Bundle

as low as 19999 After \$120 mfr

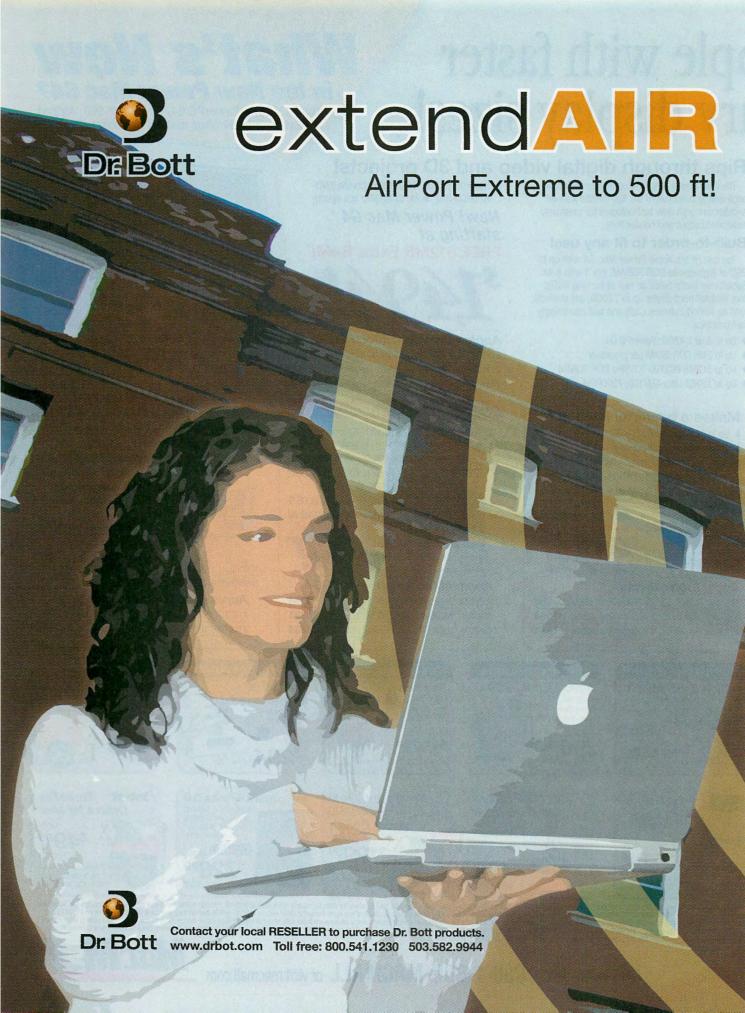


Produce the highest quality documents for print, Web and OUARK only

#965797



*FREE RAM OFFER-All models require an additional \$39.99 professional installation fee. RAM is free after \$49.95 MacMall mail-in rebate for iMac G4 models. Offer expires 4/26/03. **FREE MY0B FirstEdge OFFER-While supplies last. Additional shipping charges apply. ****MICROSOFT OFFICE v.X OFFER-Receive a full version of Microsoft Office v.X for \$188.99 with purchase of any Apple computer. Offer expires 4/7/03. *†FREE AirPort Extreme Card OFFER-Available on #116413 and #116411. An additional \$39.99 professional installation fee applies. *†Receive a full version of Microsoft Office v.X for \$188.99 with purchase of any Apple computer. Offer expires 4/7/03. *†FREE AirPort Extreme Card OFFER-Available on #116413 and #116413



Does Althorit Leave your Mae Stranded?

Turbo-charge AirPort Extreme with ExtendAIR Omni and ExtendAIR Direct!

ExtendAIR Omni and **ExtendAIR Direct** are Apple-certified external antennas that expand the range of Apple's AirPort Extreme Base Station.*

Exendal Direc.



Insanelv Great Deals on Macs & More!

Lifetime Warranty RAA

Please be aware that the memory market is extremely volatile Check our website for the most up-to-date pricing. Prices listed are web prices only, not in-sto



Computer Model/Socket G4 Dual 1GHz/1.25GHz Xserve/G4 Dual 867 PowerBook® G4 12 PowerBook® G4 17" G4 iMac® G4 AGP 466-Dual 1GHz PowerBook® G4 G3/G4/iMac® 350-600 PowerBook® G3 iBook®/iMac® 233-333

168 pin DIMMs

72 pin SIMMs

RAM Type/Description 128mg 256mb 512mb 1gb Kit 32mb 64mb **DDR PC 2700 DDR PC 2100** \$32 \$109 **DDR PC 2100 SoDIMM** \$46 \$85 DDR PC 2700 SoDIMM 149 \$89 \$169 129 **\$59** PC-133 168 pin CL3 119 113° PC-133 168 pin CL3 \$29 ¹59 §113 119 PC-100 144 pin CL2 PC-133 168 pin CL3 \$29 \$29 179 159 °155 ⁵19 115 PC-100 144 pin CL2 PC-100 144 pin CL2 119 \$22 **\$39** \$69 \$129 \$22 \$109× \$19



PowerMac® G4 **PLUS!** Free Shipping 512mb Extra RAM

w/\$29 install fee

Dual 1.42 GHz 512mb/120gb Dual 1.25 GHz 256mb/80gb 1 GHz 256mb/60ab

Trade Up Your Old G4!

Maximum Savings!



w/\$29 install fee 600MHz G3 12.1" TFT (M8600LL/A) 128MB/20GB/CD-ROM/56k/OS X

700MHz G3 12.1" TFT (M8602LL/A) 128MB/20GB/CD-RW+DVD-ROM/56k/OS X

Pioneer DVD Burners!

#1042x - \$209 #1054x - \$269



Apple Specials!

\$ 94 .Macsm Retail Box M8778LL/A Mac®OS X v10.2 M8712LL/A 119 Mac®OS X Server v10.2 (Unlimited) M8720Z/A 862 Apple Remote Desktop™ v1.1 (Unlimited Client) M8870Z/A 499 AppleWorks® 6.2.4 M8761Z/A 77 DVD Studio Pro® 1.5 M8698Z/A 968 Final Cut® Express M8987Z/A 299 Q.

Final Cut Pro 3 Upgrade M8564Z/A

il ife™ Mgne37/A

Kevnote™ 1.0 M8820Z/A





Final Cut Pro 3.0



only FREE Pioneer DVR-A04 Burner or FREE Key Caps & Contour ShuttlePro

Trade Up Your G4 Now! CALL FOR A QUOTE 1-800-80-WE BUY

Hard Drive Sale



Software & Specials!

Solimaie e spec			N
Apple iLife™ w/FREE shipping \$	49	BYTECC Slim 4 port USB 2.0 Powered Hub	25
AppleCare® for iBook® 1	92	BYTECC 6-in-1 USB Card Reader	19
AppleCare® for Power Mac® + Display 1	92	Apple AC Adapter PowerBookG3/iBook	69
AppleCare® for PowerBook® + Display 2	62	Griffin PowerMate	38
AppleCare® for iMac®/eMac® 1	32	Griffin iMate USB/ADB Adapter	35
Mac®OS 8.6 w/Free 8.5 CD wow!!	79	Griffin iMic USB Audio Adapter	30
Contour ShuttlePro	87	Blue-Gene USB BlueTooth Adapter	38
Contour Space ShuttlePro	39	Dr. Bott ADC/VGA Extractor	27
Kensington Flylight USB	15	G4Port Internal Serial Port	39
Microsoft Word/Entourage 2001	99	LaCie CD-RW 52x24x52 FW d2 case	169
DVD-R 10-pak 4.7gb (single sided)	15	LaCie DVD-R 4x2x12 FW/USB2.0 d2 case	369
BYTECC Mini Slim 4 port USB Hub	9	LaCie Electron 19 Blue IV Natural Flat	379

49

94

\$ 245

AppleCare*



term peace Of mind.

for the FRESHEST deals!

Epson/Atto/Wacom/Aurora/NetGear/Sonnet/Dr. Bott/NEC/Kensington

Insanely Great since 1994





Authorized Reseller



Apple Specialist



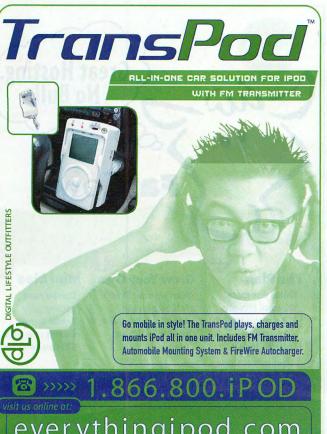
Authorized Service Provider

Secure Online Ordering at WWW. Macso

MacSolutions, Inc. 11933 Wilshire Boulevard, West Los Angeles, CA 90025 Fax: (310) 966-4433

University & School P.O.'s Welcome Note: All prices are subject to change. Limited to stock on hand. "304"
"Web prices listed. Call or check website for details on new computer purchases. Not responsible for typographic errors. Not valid in combination with any other offers or promotions All Apple products are only available for sale in-store or to previous MacSolutions customers due to our agreement with Apple Computer, Inc.

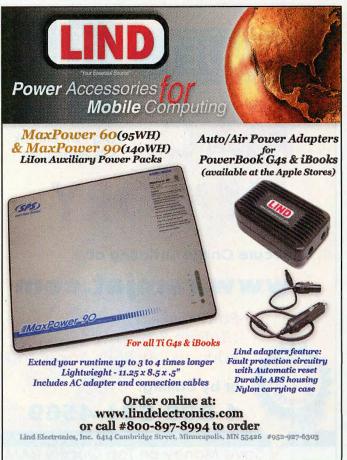


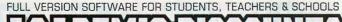




Visit DriveSavers at www.drivesavers.com 2003 DRIVESAVERS, INC. 400 BEL MARIN KEYS BLVD., NOVATO, CA 94949 INTL: 415-382-2000







You Save Up To 85% Off!

NewTek® LIGHTWAVE 3D 7.5 \$395 You Save! 75%

Adobe[®] CALL PHOTOSHOP 7 You Save! 52%

FileMaker® FILEMAKER PRO 6 \$148 You Save! 50%

Macromedia® \$189 You Save! 85%

Microsoft® CALL OFFICE XP PRO You Save! 67%

ALL MAJOR MANUFACTURERS... ALL AT HUGE DISCOUNTS!

MA.AcademicSuperstore.com

AcademicSuperstore.com 1-800-294-4035



SportSuit™ line of iPod cases offer rugged protection for your iPod. Many



Cases for all your Apple® portables. Many styles, colors & sizes available.



NEW! CEO™ line of leather cases. Elegant protection for your iPod. Also new: Podstand™

954-927-6031

SportFolio™ line of laptop cases for 12", 15", & 17" Apple laptops.



www.fatcow.com/addict Toll Free 1-800-925-2184

25.74

10.98

Become a reseller call 1-866-544-9343 x 5008

RAMJET



1Gig PowerBook Kits Available!

MEMORY

Secure Online Ordering at:

www.ramjet.com

- -Same Day Shipping
- -Lifetime Warranty
- -Educational PO's Accepted

or by calling:

1-800-831-4569

Save Money on Top Quality RAM

ink & toner

\$3.85 shipping! • \$2 off: enter promo code "MA11"

 All brands: Alps, Lexmark, HP, GCC, Brother, more! Epson Pape

S041286	8.5x11, 20pk	13.66
S041290	11x17, 20pk	39.67
S041341	8.5x11, matte	16.61
S041331	8.5x11, semi	13.66
Too muc	h to listcall or vis	it site.
HP Cartri	dges	
51645A	new	25.61
	refilled	17.41
C6578A	new	52.91
	refilled	27.91
Too muc	h to listcall or vis	it site.
Canon Ca	artridges	
SPECIAL:	4 Pack: 1x BC	I-3C,
1x BCI-3Y	, 1xBCI-3M,	
1x BCI-3b	k, orig Canon,	
See site for	or details	24.91
Apple Ca	rtridges	
M8041G/0		22.76
A2M0077		4.79
M3330G/A	4	6.22
M3328G/A	4	44.56
M3240G/A	1	29.25
Too much	to listcall or	visit site

S041134 glossy, 20pk S041124 glossy, 20pk

S041141 glossy, 20pk S041156 glossy, 20pk

S041257 matte, 50pk

S041140 glossy, 20pk

•	, LCA	mark, in	, 00	o, Die	tile, iii	ore:
	Epson Ca	artridges		more Eps	on	
I	T007201	Orig. Epson	20.95	T018201	Orig. Epson	19.95
ı		Inkfarm brand	16.75		Inkfarm brand	16.05
ı	T009201	Orig. Epson	26.36	T019201	Orig. Epson	26.36
١		Inkfarm brand	16.99		Inkfarm brand	14.75
ı	T008201	Orig. Epson	17.51	T020201	Orig. Epson	22.27
1		Inkfarm brand	13.99		Inkfarm brand	13.65
i	T026201	Orig. Epson	25.95	T003011	Orig. Epson	28.35
ı		Inkfarm brand	16.88		Inkfarm brand	15.74
ı	T027201	Orig. Epson	21.51	T005011	Orig. Epson	34.29
ı		inkfarm brand	16.88		Inkfarm brand	18.74
ı	T028201	Orig. Epson	27.52	C80 black	Orig. Epson	29.83
ı		Inkfarm brand	19.75		Inkfarm brand	18.75
١	T029201	Orig. Epson	27.02	C80 c/y/m	Orig. Epson	11.02
ł		Inkfarm brand	19.75		Inkfarm brand	7.88
ı	T017201	Orig. Epson	23.99	S020187	Orig Epson	21.55
ì		Inkfarm brand	14.95		Inkfarm brand	10.75
		Con	tinued	S020193	Orig. Epson	17.70
					Inkfarm brand	11.75
				S020189	Orig. Epson	23.99
					Inkfarm brand	9.99
		(D) Harries		S020093	Orig. Epson	18.95
		. E, .			Inkfarm brand	8.99
				S020191	Orig. Epson	21.95
		2			Inkfarm brand	16.25
				S020108	Orig. Epson	24.64
					Inkfarm brand	10.45
	1			S020089	Orig. Epson	21.95
					Inkfarm brand	14.11
е.				100 much	to listcall vi	sit site.

1-800-INKFARM kfarm.co the ink & toner supersite.™

FAMILY HISTORY - GENEALOGY

Reunion 8 is the perfect tool to organize your family history. Plenty of room for names, dates, places, stories,

notes, tidbits, and sources. Include all your favorite pictures, sounds, and home movies. Automatically build multimedia web pages to share your family



history on the Internet! Print large, colorful tree charts, timeline charts, and fan charts for family reunions. Fun

and educational for the whole family. Reunion 8 takes advantage of OS X and includes over 100 new features



Leister Productions

web site/demo: www.LeisterPro.com e-mail: info@LeisterPro.com

To order, call. MacConnection 800-800-2222

USED MACS



BUY or SELL ONLINE

sales@macofalltrades.com

www.mac-pro.com

Visit our Web Site or Call for a Great Selection of iBooks, TiBooks, Towers, G3 & G4 iMacs & Many Hard to Find Older Mac Models!



Sign up for our Mailing List!

Any Ad Is a Mac-Pro Ad! 800-525-3888

The Think Different Store







iSkin "Glo" for iPod \$24.95

iSkin for iBook \$24.95

iSkin for iPod \$19.99

www.iSkinStore.com

TheMACisp

Apple - Macintosh is our Specialty

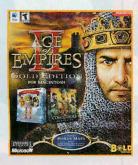
Visit: themacisp.net/ma or call Toll Free: 1.800.307.0663

GOT MAC GAMES?

·Serious savings for serious gamers.-

amer.com

got lots of them and many more...







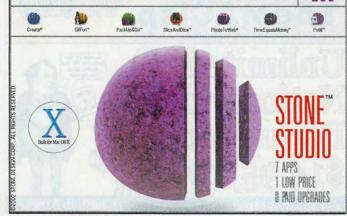




FREE UPGRADES FOR L

The applications in Stone Studio - starring Create* - have all the most used features of these applications: Illustrator, Quark Xpress, DreamWeaver, Freehand, Corel Draw, PageMaker, Timeslips, Acrobat Writer, Stuffit Deluxe, ImageReady, iPhoto and more. Visit www.stone.com/Stone_Studio_Successes to see how people just like you get their best ideas out into the world.

STONE STUDIO DOWNLOAD NOW FROM WWW.STONE.COM





🗜 333Mhz



Lifetime Warranty



Socket Type G4 Dual 1GHz/1.25 Xserve/G4 Dual 867 rBook® G4 12 rBook® G4 17 G4 iMac⁸

G4 AGP 466-Dual 1 PowerBook® G4 G3/G4/iMac® 350-60 PowerBook® G3 iBook®/iMac® 233-3 72 pin SIMMs

'								
1	RAM	Pric	es liste	by mo	dule MI	B size:		
	Type/Description	32	64	128	256	512	1gb Kit	
GHz	DDR PC 2700	-	_	_	137	⁵ 59	¹ 115	
7	DDR PC 2100	-	-	-	\$32	\$55	\$109	
20	DDR PC 2100 SoDIMM	_	_	_	s46	\$85 \	_	
18	DDR PC 2700 SoDIMM	-	-	-	149	89	3169	
	PC-133 168 pin CL3	-	-	119	\$29	*59	1113	
GHz	PC-133 168 pin CL3	-	_	119	¹ 29	159	1113	
	PC-100 144 pin CL2	-	-	-	*29	\$79	\$155	
00	PC-133 168 pin CL3	-	_	119	⁵ 29	\$59	°115	
	PC-100 144 pin CL2	_	⁵ 19	122	‡39	⁵ 69	\$129	
333	PC-100 144 pin CL2	-	119	\$22	\$49	\$109m	-	
		113	517	\$27	-	-	-	
		10	140					

Hard Drives Fire Sale!

Software & Specials!

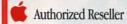
80gb 7200rpm FireWire® Oxf 911 Ext 120gb 7200rpm FireWire® Oxf 911 Ext 180gb 7200rpm FireWire® Oxf 911 Ext 200gb 7200rpm FireWire® Oxf 911 Ext

BYTECC Mini Slim 4 port USB Hub 187 289 AppleCare® for all Macs

www.macsolutions.com

MacSolutions, Inc. 11933 Wilshire Boulevard West Los Angeles, CA 90025 Phone: (310) 914-3200 Fax: (310) 966-4433

University & School P.O.'s Welcome





Check our website for the FRESHEST deals!

www.macsolutions.com



918-664-MACS(6227)



Price rounded down & may change

GET ORGANIZED!

The most popular digital asset management tool for creative professionals. Manage & publish your text images, presentations, videos, MP3s, layouts and more with Canto Cumulus 5.5.

www.canto.com



Cumulus*





G3, G4, iMAC & eMAC DEALS

63Beige 233mz 32/4GB/CD/ENET \$279.99	Mac 333mz 64/6GB/CD/ENET/56K \$449.99
63Beige 268mmz 64/4GB/CD/ENET \$299.99	Mac 400mz 64/6GB/CD/ENET/56K \$549.99
	Mac 600maz 128/40GB/CD/ENET/56K \$649.99
63 BaW 350mmz 64/4GB/CD/ENET/56K \$399.99	Mac 709maz 256/60GB/CDRW/ENET/56K \$699.99
83 BaW 400mz 128/6GB/CD/ENET/56K \$449.99	eMac 700miz 128/40GB/CD/ENET/56K \$779.99
Mac 233miz 32/4GB/CD/ENET/56K \$359.99	eMac 700maz 128/40GB/CDRW/DVD/56K \$899.99

PRE-G3 CLEARANCE

PPC 6860/160mmz 16/1GB/CD \$39.99	All-in-One 5200 16/500MB/CD/14" Mtr \$59.99
PPC 7220/200mmz 16/1GB/CD\$49.99	All-in-One 5260 16/500MB/CD/14" Mtr \$59.99
PPC 6500/180mmz 64/2GB/CD	All-la-One 5400 32/1GB/CD/15" Mtr \$79.99



	A RACKET SERVICE OF THE PARTY O
Apple eprom 18001 12x COROM SCSI \$49.99	Apple eprom 468 TH 50 pin SCSI
Apple eprom 36001 24x CDROM SCSI /ATAPI \$69.99	Mac Ready 968 HH 50 pin SCSI
Apple eprom 8x or 8x DVD ATAPI \$89.99	Mac Ready 6068 TH 63/64 EIDE\$89.99
IMac 24x COROM Trayloading \$79.99	Mac Ready 8068 TH 63/64 EIDE
IMAC 24x COROM Slotloading	Mac Ready 12068 TH 63/64 EIDE \$119.99
Minc 4x or 6x DVD Sictloading	Atto UL2D Dual Channel PCF SCSI\$69.99
Mac Internal CDRW Slotloading \$179.99	Ext USB 2.0 3.5" & 5.25" Enclosure CD/HD \$59.99
DVD Decoder Card B & W G3	Ext Rrewire 3.5" a 5.25" Enclosure CD/HD \$69.99

HARD DRIVE & CDROM CLEARANCE

Apple eprom 3001 2x COROM SCSI	\$17.99	Apple eprom 40MB-400MB IDE / SCSI	\$9.99
Apple eprom 6001 4x COROM SCSI	\$22.99	Apple eprom 500MB-840MB IDE / SCSI	\$14.99
Apple eprom 12001 8x COROM SCSI	\$34.99	Apple eprom 168 TH 50 pla SCSI or IDE	\$19.99
Apple eprom 2x DVD ATAPI	\$39.99	Apple eprom 268 TH 50 pin SCSI or IDE	\$39.99
MacAlly 2 port USB PCI	\$34.99	UniBrain 8 pert firwire PCI	\$19.99
MonAlly 2 nest INTR 2.8 DCI	\$34 99	MacAlly HCB/Elrowice Combo DCI	\$44 99



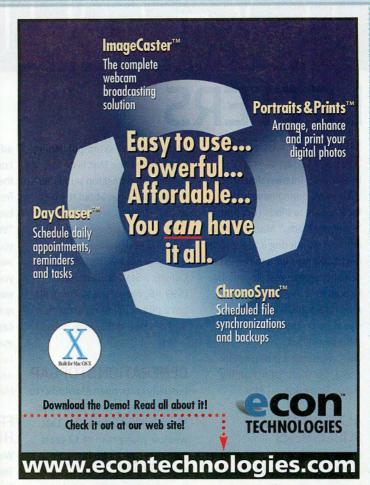
	External 56K v.90 Serial Modern
Adobe Mustrator 9.0 Upgrade MAC \$49.99	PCMCIA 56K v.90 XJack Modern
Corel IGT 6.0 Plug-Ins MAC	Global Village 56K v.90 BaW Modem \$39.99
Corel Knockout 1.5 MAC/WIN	Apple ATI RAGE PRO 16MB AGP
Deneba Canvas 7.0 Pro MAC	Apple ATI VI PRO NTSC (TV) PCI\$49.99
MacOS 8.0 CDROM 68040-604e \$49.99	Nokia/NEC 17" MultiScan Monitor \$79.99
MacOS 8.1 COROM 68040-G3	Hansol 900G 20" MultiScan Monitor \$179.99
MacOS 8.5 CDROM 601-G3\$89.99	Apple 20" MultiScan Color Monitor \$149.99
MacOS X 10.0 COROM G3-G4 \$69.99	Beige 15" TH FLATSCREEN Mtr\$299.99
MAC SAMES (Check the Web) IN STOCK	Black 17 TFT FLATSCREEN Mtr\$399.99

MISCELLANEOUS CLEARANCE

Apple ADB Mosse II	MacAlly Parrallel to SCSI Adapter Cable \$19.99
Apple ADB AppleDesign Keyboard\$24.99	USB to Parrallel Printer Converter \$19.99
Apple ADS Extended Keyboard II	Apple COMM SLOT I ETHERNET\$19.99
Logitech USB 3 button Scroll Mouse(OEN) \$19.99	Apple COMM SLOT IN ETHERNET\$29.99
Kensington USB 5 button Scroll Mouse \$24.99	Asante Nusus ETHERNET 10BT\$9.99
MacAlly ADB Stagle button Mouse	ETHERNETto SERIAL Bridge \$79.99
MacAlly ADB House "Ladybug or US Rag" \$19.99	HP Initiet 680c Printer Serial\$99.99
MacAlly IBall II USB Trackball\$29.99	StyleWriter & LaserWriter lak 10% off
MacAlly Istick USB JoyStick	READER RABBIT SERIES\$7.99
MacAlly IPen USB Tablet-less Pen Meuse \$19.99	Learn to Speak English French German \$19.99
MacAlly IBall II USB Trackball\$29.99	Learn to Speak Spanish Italian Chinese \$19.99
Griffin Adapters SOLD HERE	MAC GAMES (Check the Web)IN STOCK

POWERON.COM

PHONE SALES
8am-5pm PST M-F
24 hours / 7 days
8801 Washington Blvd., STE. 101 • Roseville CA 95678 tel 916-677-6227 • 916-677-6228 fax



1-800-4-MEMORY

LAPTOP - DESKTOP - CAMERA

NO RE-STOCKING FEE - MAIOR BRANDS BRAND NEW PARTS - FREE TECH HELP

SPECIALS ON THE WEB WWW.18004MEMORY.COM

944 LOG OUT

LETTERS

MISSING CELEBRITY SIGNATURE

I noted with interest that artists such as Madonna have attached their names to iPods (*Get Info*, "Celebrity iPods," Mar/03, p14), and was wondering if Steve Jobs might add his name to the list of celebrity signatures. Personally I would love the opportunity to purchase a 20GB iPod with his signature on the back.

—Harvey Milam

We forwarded your request to Apple, but myself, I'm holding out for Betty Boop.—*Max*

ALTERNATE PUBLISHERS

I recently switched to the Mac, and I'm glad I did; however, I do have a question. What can I use to replace Publisher, Microsoft's inexpensive desktop-publishing app? I know the Mac is a professional desktop publisher's dream, but what about the rest of us?—*Drew*

Welcome aboard, Drew. If you've got Dom Perignon dreams but a Colt 45 budget, try Deneba's Canvas 7 Standard Edition (\$99.95, www.deneba.com). It's got a pile o' painting, drawing, and desktop-publishing tools.

—Max

GENERATION STOPGAP

I usually crack open MacAddict to read during my long ride on the Metro in Washington, D.C. Last week, a young man of 12 years sat next to me, with his mom in the row behind us. As I perused the many interesting articles (and flashed by the many game

ads), this young man craned his neck to view the pictures. As I departed from the train, his mother breathed into my ear, "What magazine was that you were reading? My son was just fascinated." Soon you should have a mother wanting to get her son a magazine that can truly capture a young (and old) man's fancy.-Frank Issi Lucky kid. I'm always stuck next to the guy reading Varmint Hunter.--Max

FROM VARMINT-HUNTER HUNTERS

We at People for the Ethical Treatment of Animals (www.peta.org) enjoyed the Vegan Life magazine cover



Vegan Life and PETA make quite a pear.

example in your recent article "How to Create PDFs" (Feb/03, p66). Although PETA doesn't have any information on the great "Harvesters versus Fruitarians" debate, we do have great tips and fabulous recipes on our Web site, GoVeg.com, that will tempt even the most die-hard carnivore.

—Heather Moore, PETA
Whether you dine on tofu or
T-bones, we aim to please.—Max

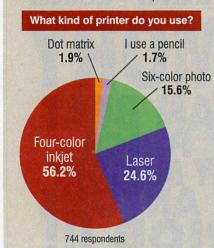
THE THINGS PEOPLE LIKE

When are you going to do something more with the MacAddict cursor extension? It could be a tad bigger and could come in different colors. It needs a new spaceship, too. The best part about the cursor is its sharp point. Don't change that. Don't let the best MacAddict creation die and be forgotten.

-Dana Benson
Speaking of MacAddict
creations, what am I? Chopped
cursor? But I do agree that we
could all use a new spaceship.
-Max

SURVEY SAYS

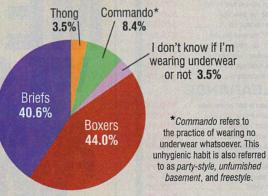
Here's How You Responded to Our Online Poll



BEHIND THE NUMBERS

- Six-color photo printer users are more than four times as likely as four-color inkjet users to prefer thongs.
- Unlike six-color photo printer and dot-matrix printer users, four-color inkjet and laser printer users prefer boxers to briefs.

What kind of underwear do you prefer?



744 respondents

- Boxers are most popular among four-color inkjet users, who prefer them seven times as much as dot-matrix printer users do.
- Dot-matrix printer users are four times more likely to go commando than laser printer users are.

MacAddict, 150 North Hill Dr., Brisbane, CA 94005 or letters@macaddict.com FOR CD PROBLEMS: go to www.futurenetworkusa.com

FOR SUBSCRIPTION QUERIES: call (toll-free) 888-771-6222

MacAddict READER POI

Which would you most like to see ported to the Mac (choose one)?

- · Halo
- · Grand Theft Auto: Vice City
- Lord of the Rings:
 The Two Towers
- Enter the Matrix
- QuarkXPress

Which would you most like to see deported (choose one)?

- The cast of Friends
- · Carrot Top
- · The Baldwin brothers
- · Kid Rock
- QuarkXPress

To vote, click Reader Poll at www.macaddict.com before April 10, 2003. See the July 2003 issue for the results. Check www.macaddict.com for a new poll each month.

COUPLE TROUBLE

My girlfriend insists that the "When All Else Fails" photos of Macs that encountered horrific disaster ("Be Prepared: Disk Utilities Explained," Mar/03, p36) are set up and not real. I'm quite certain they're genuine. Hey, I might be a dummy about a lot of stuff, but I'll be darned if I'm wrong about my Mac stuff.—Chris

We used no stunt doubles. Those pictures are of actual Macs whose data was recovered by the wizards at DriveSavers (http://drivesavers.com). Looks like you win the debate...this time.—Max

TEX FAXTS

While I could not agree more with Imlay's horror at bad product naming (*Shut Down*, Feb/03, p96), his example of a "gratuitous use of the letter x" is flawed. CMacTeX is so named because it is related to the



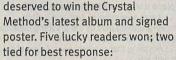
I'll take some CHiPs and published its a Greek chi, please. first manual,

mathematical typesetting program TeX, created by legendary badass Donald Knuth back in the 1980s. Addison-Wesley published its first manual, *The*

WINNERS

January 2003 Contest Results





Dolores H. Catlett "At age 72, I'll probably have less time to enjoy it than your other entrants."

Russ Graves "I wanna play this CD for my girlfriend, who just finished seven months of community service to stay out of jail."

Congrats to Adam Furgang, Matthew deJonge, and R. Scott Smith as well.

TeXbook, in 1984. Further, the x in TeX is a Greek chi, and consequently users pronounce TeX like "tech." Nowadays people use some derivative of TeX like LaTeX, which (confusingly) is not pronounced like the rubber product. As far as growing a mustache in protest is concerned, I recommend the Sam Elliot. —Professor Skip Garibaldi

Thanks for the heads-up. Now maybe Grizzly Imlay over here will shave.—*Max*

NEXT MONTH

INSIDER SECRETS

Tips straight from the developers of Photoshop, iMovie, Word, Toast, and more.

DISPLAY ROUNDUP

We test a couple dozen LCD displays and tell you which one to buy.

OFFBEAT SHAREWARE

There's a world of unusual shareware out there. We show you the best of the weird.

Mac Addict READER SURVEY



Fill It Out, Mail It In, and Win!

Tell us what you think of *MacAddict* so we can do more of the stuff you like, less of the stuff you don't like, and add whatever you think is missing. Fill out the form and send it to: *MacAddict* Reader Survey, 150 North Hill Dr., Brisbane, CA 94005.

All submissions received before May 26, 2003, will automatically be entered in a random drawing for a LaCie Data Bank 20GB hard drive (\$299 retail value, www.lacie.com). Photocopies of the survey will not be accepted.

The second secon		
Name	ntia la memora	
Address		
Phone number	i lo zmakaj sa i	
Email	CONTRACTOR	
How did you get this copy of I a)□ I'm a subscriber. b)□ I bought it on the newsstand. c)□ It was passed along to me by	o control vein at a	
2. Month to month the magazine promises of its cover: a)□ Agree b)□ Somewhat agree	e delivers on the	

c) Disagree (explain below)

3. How many people read your copy of MacAddict?

4. What percentage of the magazine do you generally read?

a) 1 to 25%

b) 25 to 50%

c) 50 to 75%

d) ☐ 75 to 100%

e) ☐ Every word

5. Month to month, is MacAddict worth the price?

a) Yes, always

b)☐ Most of the time

c) About half of the time

d) Not enough for me to buy it regularly

CONTINUED ON NEXT PAGE+

Mac Addict

CONTINUED FROM PREVIOUS PAGE

6. On a scale of 1 to 5 (1 being least important, 5 being most important), rank each of the factors that compel you to read MacAddict:

- Attitude and personality of editorial staff
- Quality of writing
- Quality of page layout and design
- Quality of photography
- Technical depth of product coverage
- Honesty, integrity, and frankness of product coverage
- Timeliness of product coverage
- Magazine's help in making product
 - purchasing decisions
- Magazine's help in fixing technical problems Brand recognition
- Entertainment value
- Cover lines and words Cover subject
- 7. Considering all of the magazines you read, how would you rank MacAddict on a 1 to 5 scale (1 being the least favorable rating) in terms of consumer value?
- 8. Considering all of the magazines you read, where does MacAddict fit on your list of favorites (1 being least favorite, 5 being most favorite)?

9. What do you think of the overall design of the magazine?

- a) It's cool, I like it.
- b) I think the design is too busy.
- c) I think the design is too clean.
- d) It's just OK.

10. Do you find the tone of the writing to be:

- a) The right mix of fun and informative
- b) Too serious
- c) D Too silly

11. In regard to the organization of MacAddict:

- a) It is easy to find exactly what I am looking for.
- b) I wish it were easier to find what I am looking for.

12. On a scale of 1 to 5 (1 being the least favorable rating), which of the following are you interested in purchasing?

- The last 12 issues in PDF format on a single disc MacAddict-branded stickers, posters, calendars,
- shirts, hats, and so on
- A monthly electronic version of the magazine that would replace the print version
- A less expensive, Discless newsstand option

13. How would you rate the Disc content (choose one):

- a) Love it! It's vital to my enjoyment of the magazine.
- b) □ I appreciate it most of the time.
 c) □ I occasionally find it useful.
- d) I couldn't care less about it.

14. What do you think about the Disc interface?

- a) It's stunning and easy to use.
- b) It could look better, but it's easy to use.
- c) It could use an upgrade.

No purchase is necessary to win. You need not complete the survey to enter the contest (except for your contact information). The odds of winning depend upon the number of entries received. Future Network USA cannot be responsible for lost, late, misdirected, or incomplete USA cannot be responsible for lost, late, misdirected, or incomplete entries. The prize is nontransferable and no substitutions will be allowed. Winners will be determined by a random drawing of all valid entries and the decision of Future Network USA shall be final. This contest is open to residents of the United States only. Return of any prize or prize notification as undeliverable will result in disqualification and an alternate winner will be selected. Winners are responsible for paying any income taxes on the value of the prize received. Void in Rhode Island, Puerto Rico, and where prohibited by law.

acAdd

But Wait! There's More!

Thanks for filling out and mailing this month's MacAddict Reader Survey which began on page 95 and wrapped up on the left third of this page! Good luck on the drawing!

But we're not done with you yet! We want to know even more about your most intimate habits! Your deepest thoughts! Your darkest secrets! So, fill out the form below and mail it (in a separate envelope from the MacAddict Reader Survey!) to MacAddict Bonus Reader Survey Xtreme Pro Gold Edition III, 150 North Hill Dr., Brisbane, CA 94005! No photocopies, please!

All submissions received before May 26, 2003, will automatically be entered in a random drawing for a genuine 50-pin SCSI cable autographed by our very own MacAddict staff! In ink!

High-school nickname

Snail-mail address

Spam-receptacle address

- 1. What's your opinion of Apple's decision to discontinue the free iTools service and replace it with the \$99-per-year .Mac?
- a) It was a venomous, bait-and-switch, money-grubbing ploy by the grasping capitalist vermin who count Apple's beans.
- b) Anything that can help keep Apple afloat is OK with me.
- c) Big %\$#@!ing deal. I spend that much per month on beer, dude.
- d) The Canadian Rockies in fall. Mmm, elk! Note: If you chose d), may we gently suggest that you consider adjusting your meds?
- 2. On a scale of 1 to 5 (1 being least important, 5 being most important, 3 being yellow, and 2 and 4 floating cold and lonely in the vast emptiness of space), rate the reasons that you use a Mac:
- I simply prefer to be infinitely cooler than the lower 97 percent of computer users.
- Its interface is as beautiful as I am. Its interface is as easy as I am.
- It makes me think of fruit. I like fruit.
- It makes me think of sex. I like sex.
- It makes me think of lower-case i's. I like lower-case i's
- I enjoy being an oppressed minority. "Velocity Engine" has such a nice,
- Jules Verne ring to it.
- The idea of boosting Bill Gate's fortune makes me want to puke.
- It goes well with my black turtleneck, jeans, and receding hairline.
- Large selections of software confuse me. Quark and Photoshop don't run on peecees. Oh, wait. They do. Never mind.
- Nothing gives me more pleasure than staring at a perpetually spinning rainbowcolored beach ball

3. Where did you get the MP3 files that are in your iTunes Library?

Win a SCSI cable

autographed by the

MacAddict staff!

a) I personally ripped each and every MP3 file from CDs that I legitimately purchased myself. b) I am a liar.

Note: Multiple answers are allowable in question 3.

- 4. On a scale of 1 to 5 (1 being least important, 5 being most important, 3 being periwinkle, and 2 and 4 exhibiting existential angst that makes Johnny Sartre and Al Camus look like SpongeBob SquarePants), rate the importance of the following things you do with your Mac:
- Convincing guys in chat rooms that I'm really a Vassar coed.
- (If you actually are a Vassar coed) Convincing guys in chat rooms that I'm really a Vassar coed.
- Using Excel's DDB (double declining balance) function to calculate the depreciation of my 401k plan.
- Selling my copy of OS 8.6: The Missing Manual on eBay.
- Hiding my secret collection of bootleg J. Lo JPEGs.
- Selecting fonts and adjusting leading to expand my term papers to the required page count.
- Creating a pixel-shaded 3D model of that honey or hunk who won't go out with me. Posting cranky commentary about my
- missing Disc sleeve on MacAddict.com's
- 5. If you were trapped in an elevator with Steve Jobs, you would (choose all that apply):
- a) D Sweat.
- b) Thank him for making my life worth living.
- c) Ask to borrow the keys to the Gulfstream V.
- d) Offer a backrub.
- e) D Entertain him with my collection of Scully, Spindler, and Amelio knock-knock jokes.
- One example of e): "Knock-knock." "Who's there?"
 "John Scully." "John Scully who?" "Exactly."

No purchase is necessary to win. (Though we certainly don't mind if you buy a few extra copies of this issue.—Ed.) You do not need to complete the survey to enter the contest (except for your contact information). (But we'll have more fun reading it if you do.—Ed.) The odds of winning depend upon the number of entries received. (Well, duth. It is a random drawing, after all—we trust you learned enough in high school math to fligure this one out.—Ed.) Future Network USA cannot be responsible for lost, late, misdirected, or incomplete entries. (Or anything else sent through the USPS.—Ed.) The prize is nontransferable and no substitutions will be allowed. (Well, if your heart is really set on an autographed RS-232 cable, we might be able to oblige.—Ed.) Winners will be determined by a random drawing of all valid entries and the decision of Future Network USA shall be final. (Not even Justice Scalla or Judge Judy could change our decision.—Ed.) This contest is open to residents of the United States only. (Even Rik's relatives in Poznan and Gradzidz are ineligible.—Ed.) Return of any prize or prize notification as undeliverable will result in disqualification and an alternate winner will be selected. (Don't blame us. Blame your mail carrier and his 40-ounce lunch.—Ed.) Winners are responsible for paying any income taxes on the value of the prize received. (Yeah, Sure. Like you're worried.—Ed.) Void in Rhode Island, Puerto Ricans don't have one. Sorry.—Ed.)

BUY 1, GET \(\daggerrightarrow\) FREE*



*Purchase one full copy of TechTool® Pro 3 or Drive 10™ and get a free upgrade to TechTool Pro 4 when it ships this spring! See details below.

HTOOL PRO



Offer expires May 31, 2003.
Only available on specially marked packages.
Promotional offers cannot be combined. Void where prohibited.





Microsoft® Office v. X lets Mac users effortlessly open, edit, and save any Office file, to make working with PCs a breeze. Complete with easy-to-use, exclusive Mac tools that simplify complex tasks. And it's for Mac OS X, so it's the most reliable, easygoing Office yet.

Go www.officeformac.com to download a free 30-day trial of Office v. X today.



